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HCD-RG66

SERVICE MANUAL

Ver 1.0 2002. 04

AEP Model
UK Model
E Model
Australian model

- HCD-RG66 is the tuner, deck, CD and amplifier section in MHC-RG66.

CD Section	Model Name Using Similar Mechanism	NEW
	CD Mechanism Type	CDM58F-K6A
	Optical Pick-up Name	KSM-213DCP
Tape deck Section	Model Name Using Similar Mechanism	NEW
	Tape Transport Mechanism Type	CWL43RR-51

SPECIFICATIONS

Amplifier section

AEP and UK models:

DIN power output (rated) 115 + 115 watts (6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference) 140 + 140 watts (6 ohms at 1 kHz, 10% THD)
Music power output (reference) 280 + 280 watts (6 ohms at 1 kHz, 10% THD)

Singapore and Australian models:

The following measured at AC 120, 220, 230 – 240 V, 50/60 Hz
DIN power output (rated) 115 + 115 watts (6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference) 140 + 140 watts (6 ohms at 1 kHz, 10% THD)

Inputs
MD/VIDEO (AUDIO) IN (phono jacks): voltage 450/250 mV, impedance 47 kilohms
GAME (AUDIO) IN (phono jack): voltage 450 mV, impedance 47 kilohms
MIC (phone jack) (except for European models): sensitivity 1 mV, impedance 10 kilohms

Outputs
PHONES (stereo mini jack): accepts headphones of 8 ohms or more
Front speaker: accepts impedance of 6 to 16 ohms
Surround speaker: accepts impedance of 24 ohms

CD player section

System: Compact disc and digital audio system
Laser: Semiconductor laser (λ =780 nm) Emission duration: continuous
Frequency response: 2 Hz – 20 kHz (±0.5 dB)
Wavelength: 780 – 790 nm
Signal-to-noise ratio: More than 90 dB
Dynamic range: More than 90 dB
CD OPTICAL DIGITAL OUT (Square optical connector jack, rear panel)
Wavelength: 660 nm
Output Level: –18 dBm

Tape deck section

Recording system: 4-track 2-channel stereo
Frequency response: 50 – 13,000 Hz (±3 dB), using Sony TYPE I cassette

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range 87.5 – 108.0 MHz
Antenna FM lead antenna
Antenna terminals 75 ohm unbalanced
Intermediate frequency 10.7 MHz

AM tuner section

Tuning range
European and Middle Eastern models: 531 – 1,602 kHz (with the interval set at 9 kHz)
Other models: 531 – 1,602 kHz (with the interval set at 9 kHz) 530 – 1,710 kHz (with the interval set at 10 kHz)
Antenna: AM loop antenna
Antenna terminals: External antenna terminal
Intermediate frequency: 450 kHz

General

Power requirements
AEP and UK models: 230 V AC, 50/60 Hz
Australian model: 230 – 240 V AC, 50/60 Hz
Singapore model: 120 V, 220 V or 230 – 240 V AC, 50/60 Hz Adjustable with voltage selector
Power consumption
AEP and UK models: 220 watts 0.5 watts (at the Power Saving Mode)
Singapore and Australian models: 220 watts
Dimensions (w/h/d) Approx. 280 × 325 × 421 mm
Mass Approx. 10.5 kg
Supplied accessories: AM loop antenna (1) Remote Commander (1) Batteries (2) FM lead antenna (1) Front speaker pads (8)

Design and specifications are subject to change without notice.

MINI HI-FI COMPONENT SYSTEM

9-873-972-01
2002D1600-1
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Home Audio Company
Published by Sony Engineering Corporation

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NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Notes on chip component replacement
- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing
- Keep the temperature of soldering iron around 270˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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SECTION 1
GENERAL

This section is extracted from instruction manual.

Main unit

ALPHABETICAL ORDER

A – G

AUDIO jacks 26 (29)
CD 32 (12, 13, 19, 20)
CD SYNC 17 (19, 20)
Deck A 23 (17, 18)
Deck B 16 (17 – 21, 26)
DIRECTION 6 (18 – 20, 26)
DISC 1 – 3 10 (12, 13, 20)
DISC SKIP/EX-CHANGE 11 (11, 12)
Disc tray 9 (11)
DISPLAY 6 (17, 24)
EDIT 6 (20)
EFFECT ON/OFF 3 (22)
ENTER 12 (11, 13 – 15, 20, 23, 27, 28)
FM MODE 6 (16)
GAME 28 (25)
GAME EQ 21 (22)
GAME MIXING 22 (25)
GROOVE 2 (22)

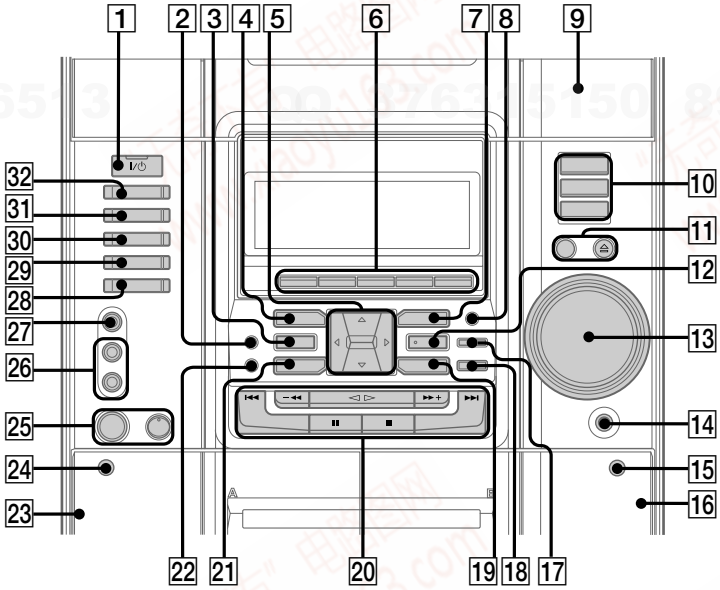
M – Z

MD (VIDEO) 29 (30)
MIC jack*1 25 (26)
MIC LEVEL control*1 25 (26)
MOVIE EQ 7 (22)
MUSIC EQ 4 (22)
P FILE 19 (23)
PHONES jack 14
PLAY MODE 6 (12, 13, 20)
REC PAUSE/START 18 (19, 20, 26)
REPEAT 6 (12)
SPECTRUM 6 (25)
SURROUND SPEAKER MODE 8 (21)
TAPE A/B 30 (17, 19)
TUNER MEMORY 6 (14, 15)
TUNER/BAND 31 (14 – 16, 19)
VIDEO jack 27 (29)
VOLUME control 13

BUTTON DESCRIPTIONS

I/⏻ (power) 1
▲/▼/◀/▶ 5
⏏ OPEN/CLOSE 11
⏏ (deck B) 15
▶▶ 20
I◀◀ 20
■ 20
◁▷ 20
❚❚ 20
▶▶I 20
◀◀ 20
⏏ (deck A) 24

*1 Except for European models



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Remote Control

ALPHABETICAL ORDER

A – G

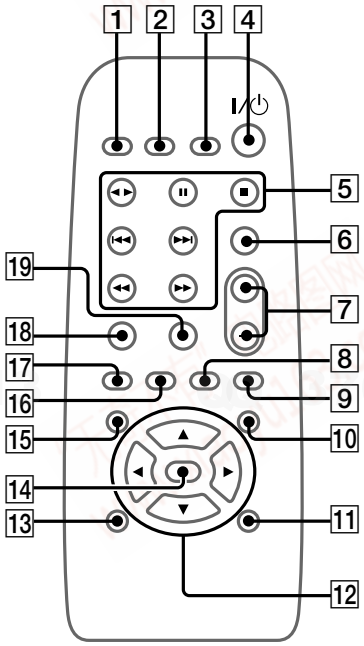
CD 17 (12, 13, 19, 20)
CLEAR 6 (13)
CLOCK/TIMER SELECT 2 (21, 28)
CLOCK/TIMER SET 3 (11, 20, 27)
D.SKIP 19 (12)
EFFECT ON/OFF 11 (22)
ENTER 14 (11, 13 – 15, 20, 23, 27, 28)
GAME 18 (25)

M – Z

MD (VIDEO) 9 (30)
P FILE 13 (23)
PRESET +/– 5 (14 – 16)
PRESET EQ 15 (22)
SLEEP 1 (27)
SURROUND 10 (23)
TAPE A/B 8 (17, 19)
TUNER/BAND 16 (14 – 16, 19)
TUNING +/– 5 (14 – 16)
VOL +/– 7

BUTTON DESCRIPTIONS

I/⏻ (power) 4
▶▶ 5
I◀◀ 5
■ 5
◀/▶ 5
II 5
▶▶I 5
◀◀ 5
▲/▼/◀/▶ 12



Setting the clock

1 **Press I/⏻ to turn on the system.**

2 **Press CLOCK/TIMER SET on the remote.**

3 **Press ▲ or ▼ repeatedly to set the hour.**

4 **Press ▶.**
The minute indication flashes.

5 **Press ▲ or ▼ repeatedly to set the minute.**

6 **Press ENTER.**
The clock starts working.

To adjust the clock

1 Press CLOCK/TIMER SET on the remote.

2 Press ▲ or ▼ repeatedly to select “CLOCK SET”, then press ENTER.

3 Do the same procedures as step 3 to 6 above.

Note

The clock settings are canceled when you disconnect the power cord or if a power failure occurs.

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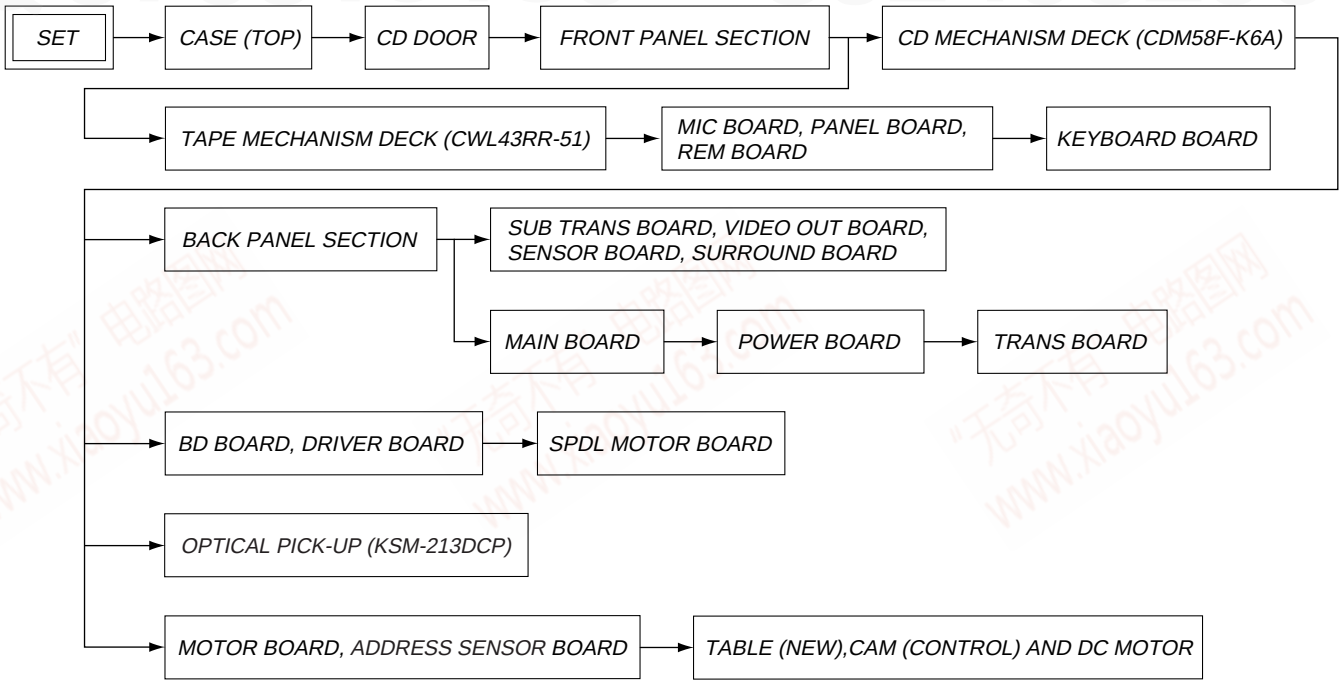
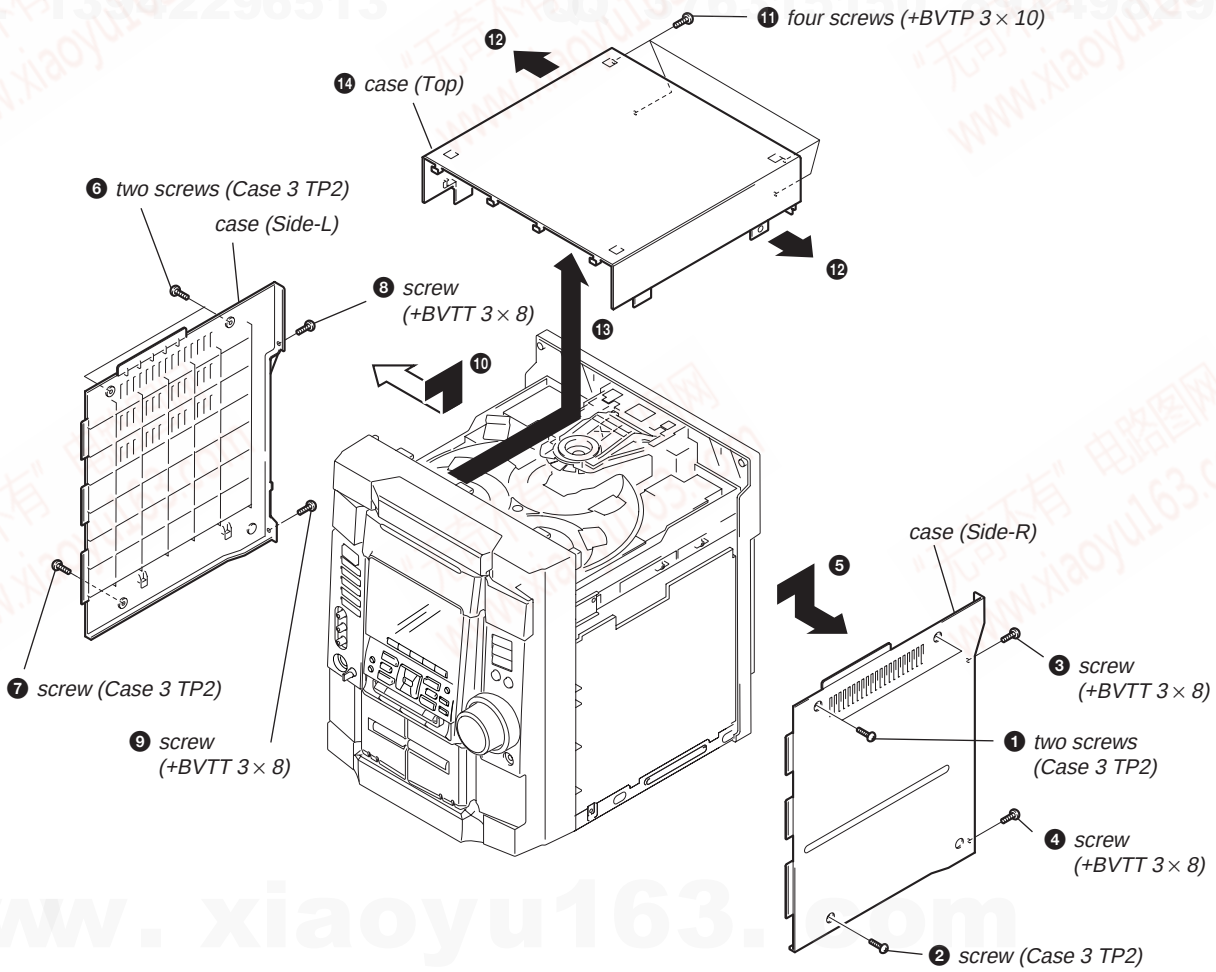
SECTION 2
DISASSEMBLY

Note : Disassemble the unit in the order as shown below.



Note : Follow the disassembly procedure in the numerical order given.

2-1. Case (Top)



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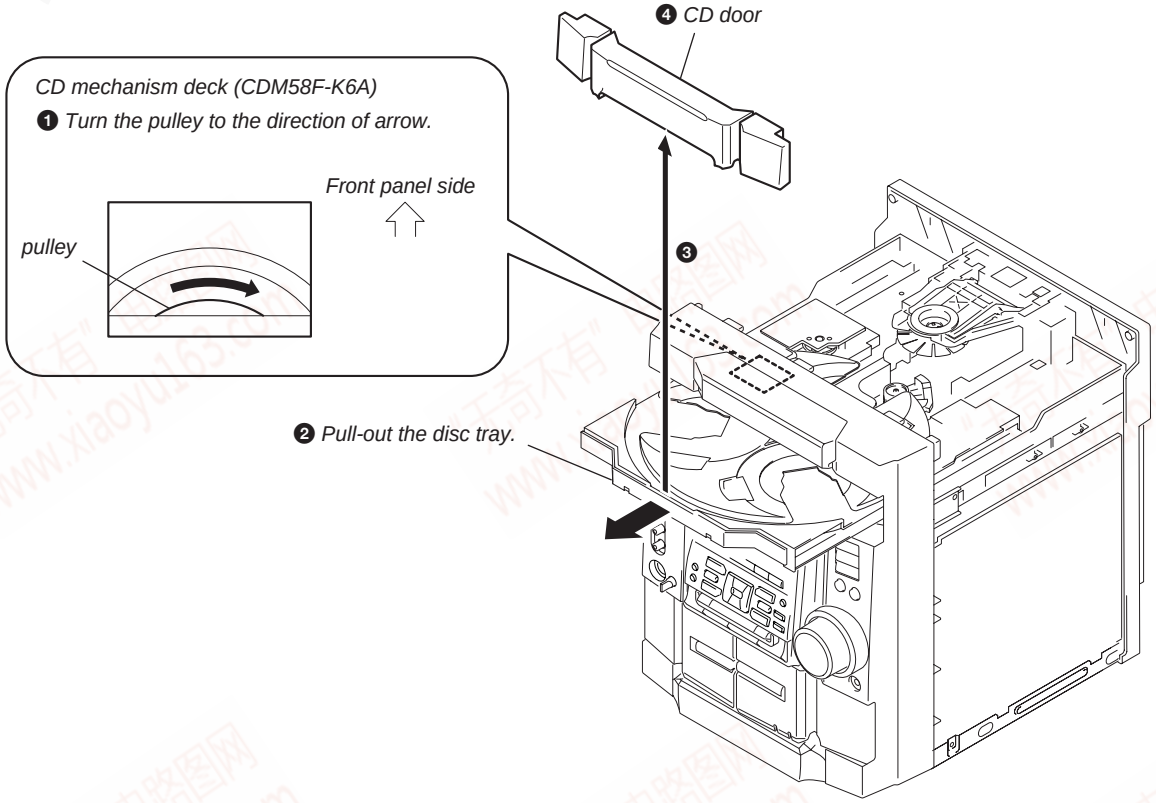
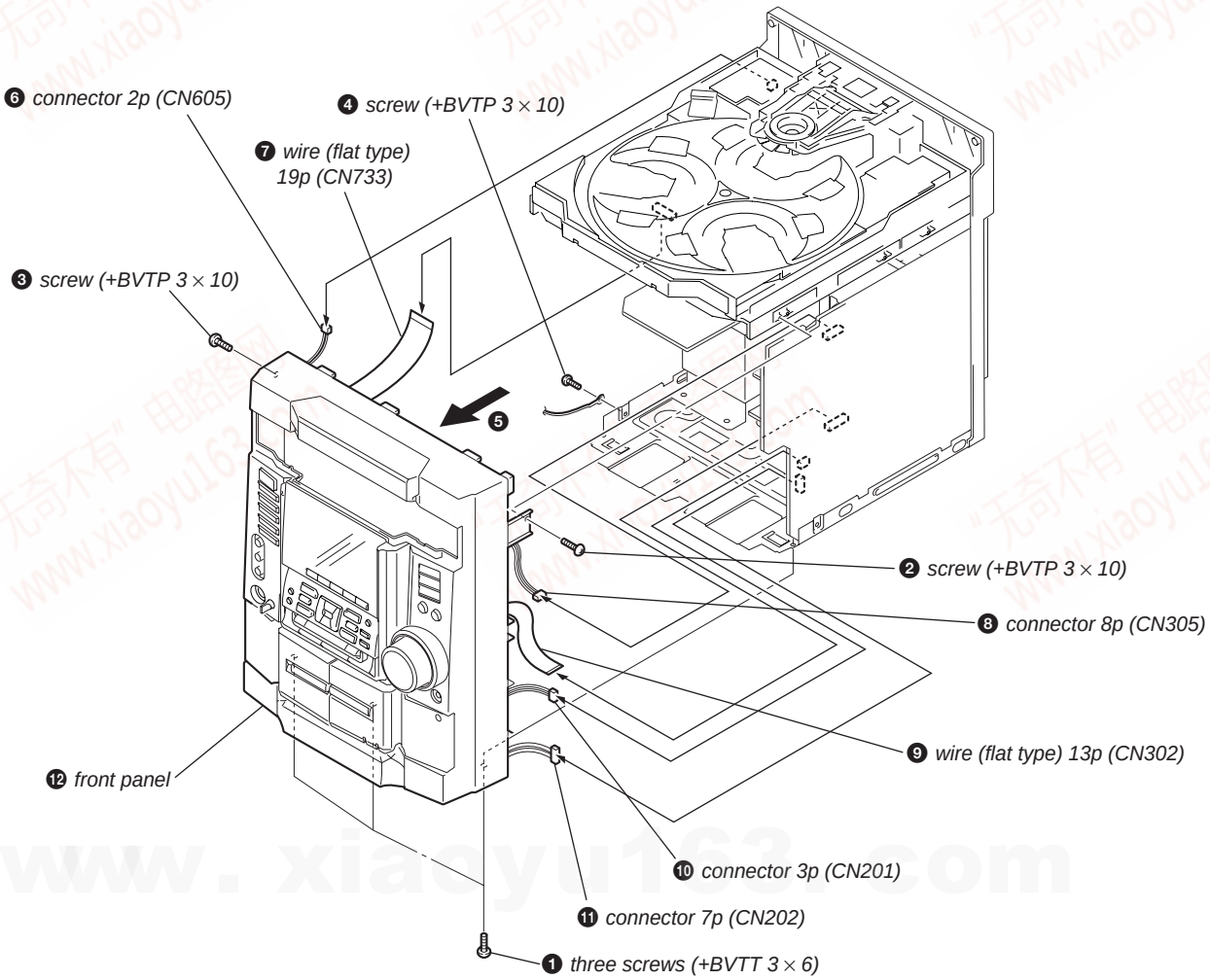
2-2. CD Door



2-3. Front Panel Section


❻ connector 2p (CN605)
❹ screw (+BVTP 3 × 10)
❼ wire (flat type) 19p (CN733)
❸ screw (+BVTP 3 × 10)
❺
❷ screw (+BVTP 3 × 10)
❽ connector 8p (CN305)
❾ wire (flat type) 13p (CN302)
❿ connector 3p (CN201)
⓫ connector 7p (CN202)
❶ three screws (+BVTT 3 × 6)
⓬ front panel

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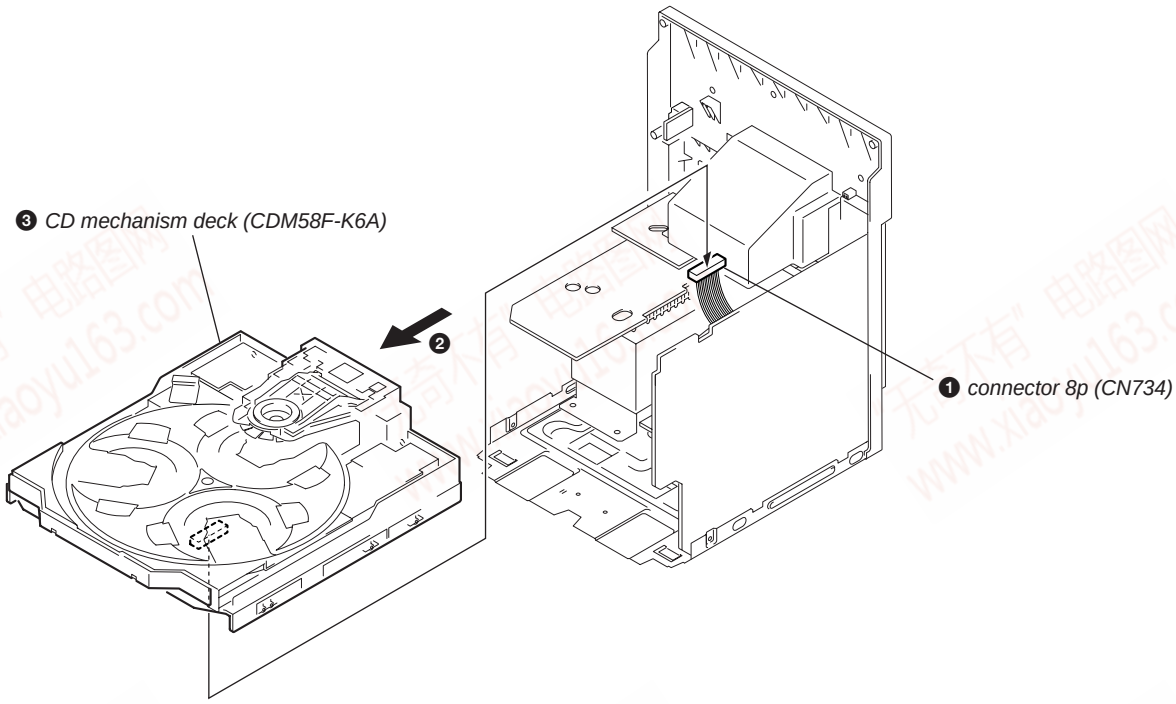
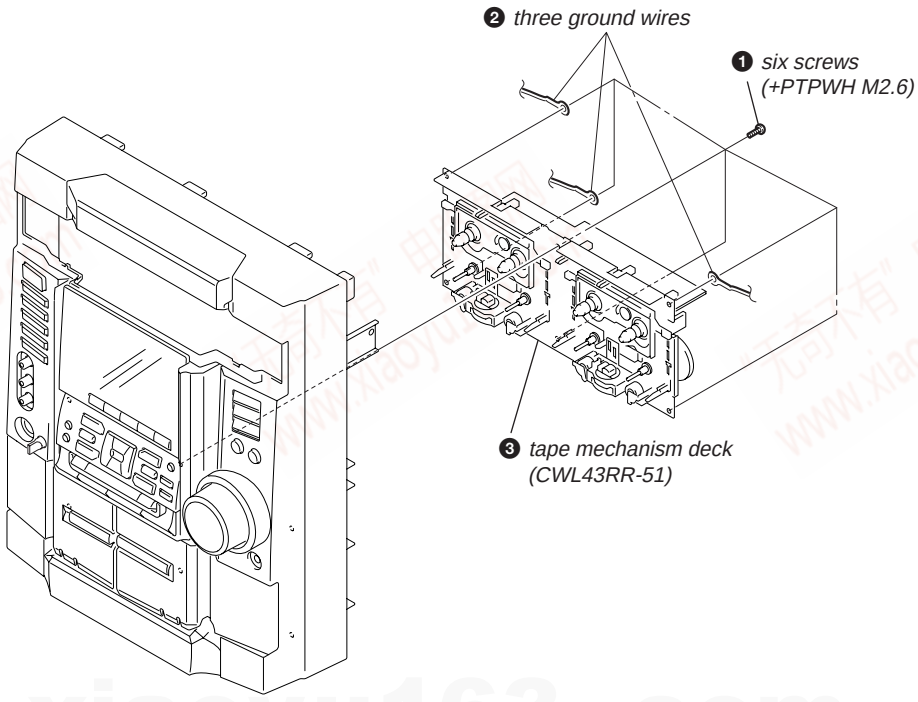
2-4. CD Mechanism Deck (CDM58F-K6A)



2-5. Tape Mechanism Deck (CWL43RR-51)



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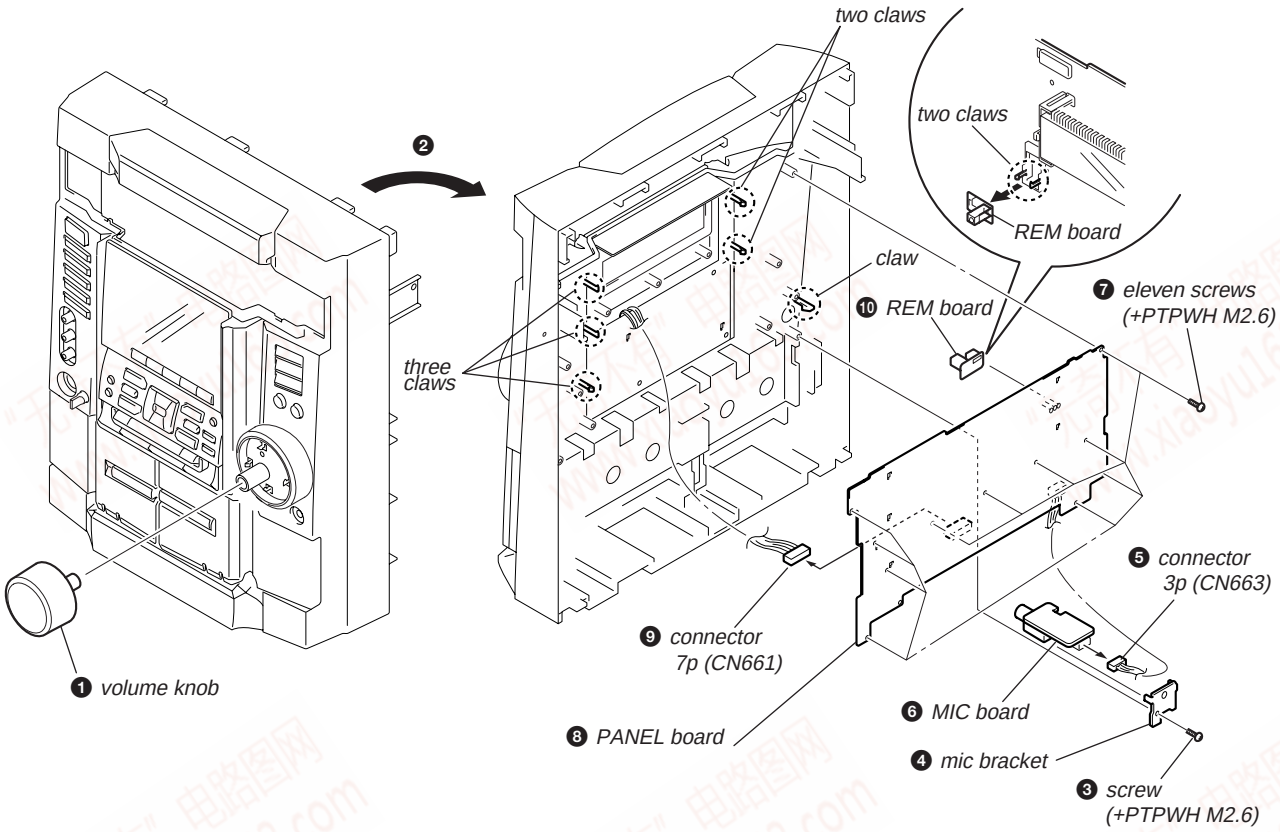
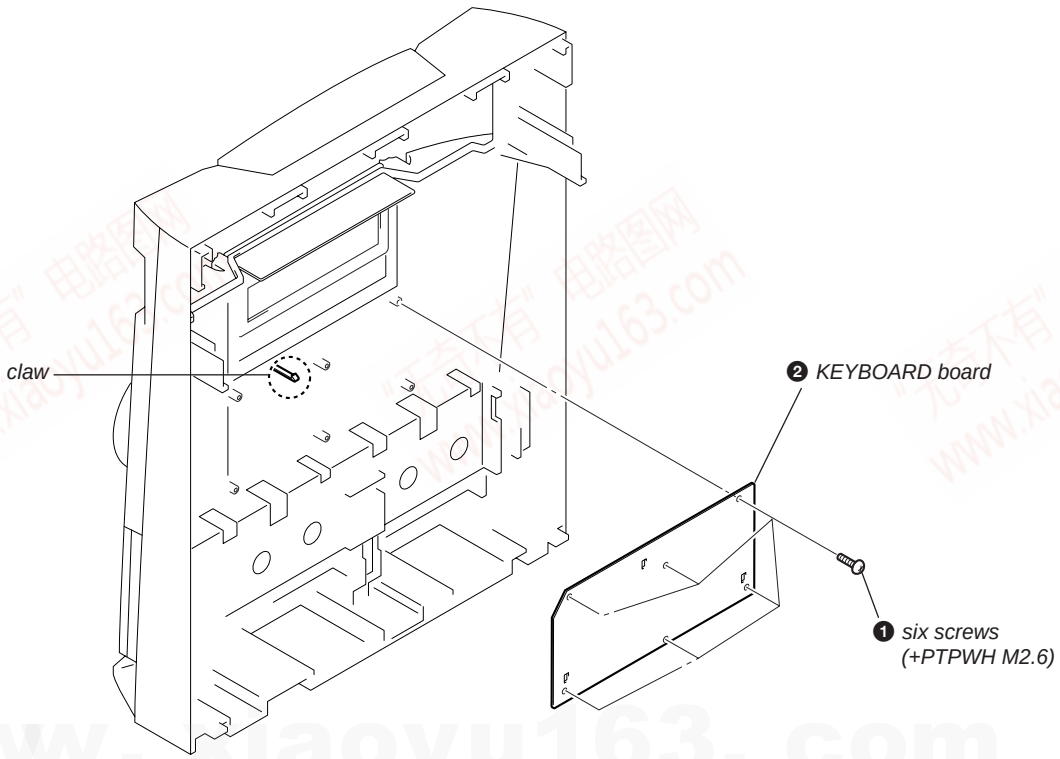
2-6. MIC Board, PANEL Board, REM Board



2-7. KEYBOARD Board



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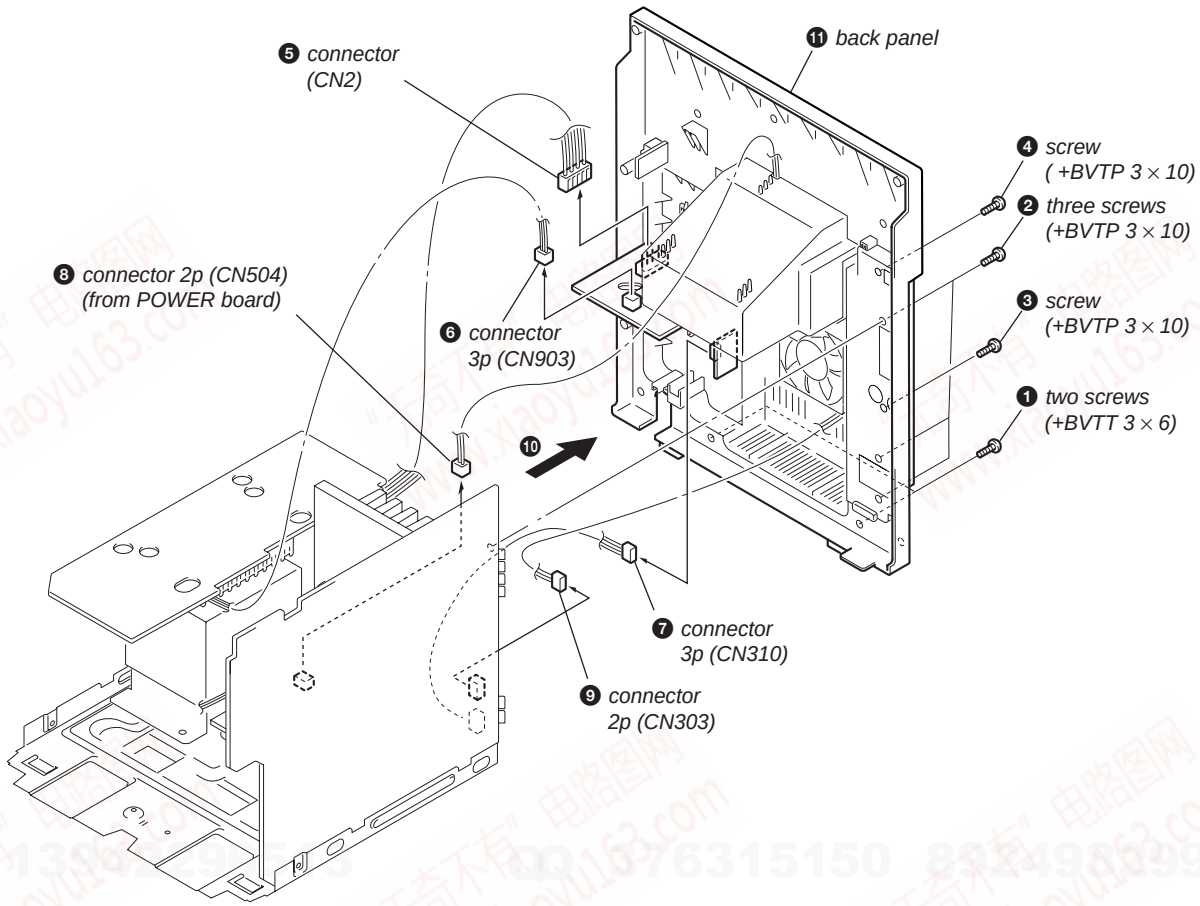
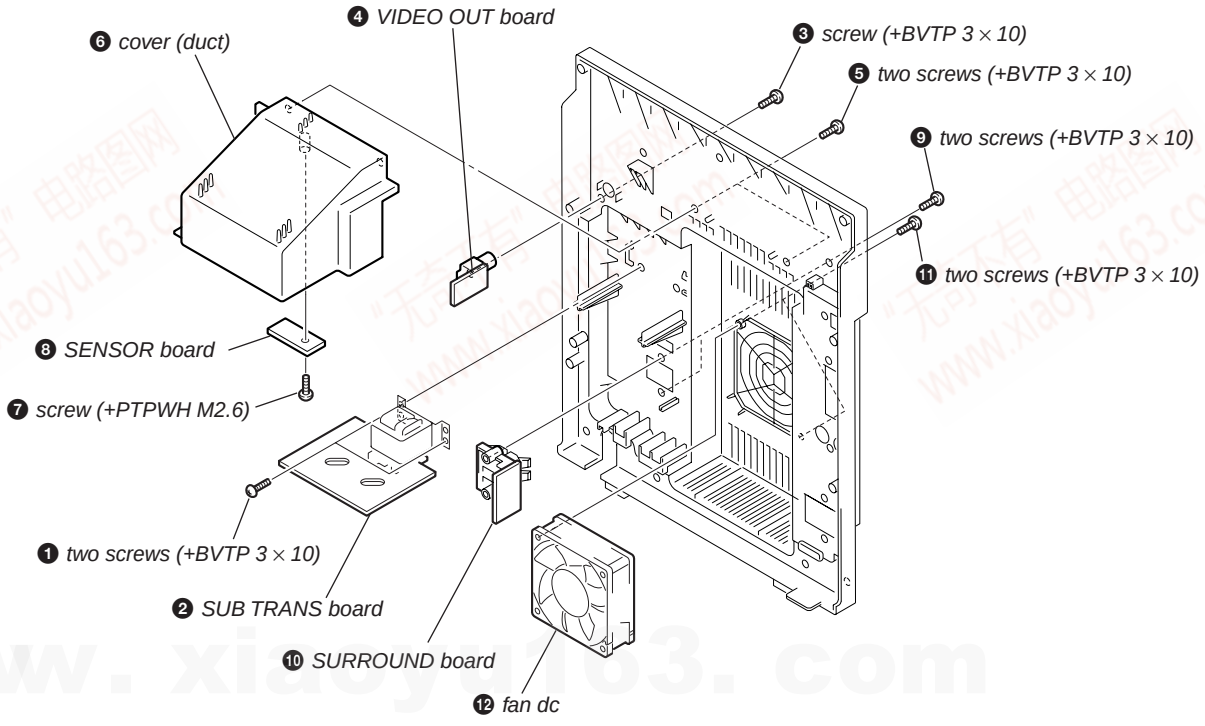
2-8. Back Panel Section


❺ connector (CN2)
⓫ back panel
❹ screw (+BVTP 3 × 10)
❷ three screws (+BVTP 3 × 10)
❸ screw (+BVTP 3 × 10)
❶ two screws (+BVTT 3 × 6)
❽ connector 2p (CN504) (from POWER board)
❻ connector 3p (CN903)
❿
❼ connector 3p (CN310)
❾ connector 2p (CN303)

2-9. SUB TRANS Board, VIDEO OUT Board, SENSOR Board, SURROUND Board


❹ VIDEO OUT board
❻ cover (duct)
❸ screw (+BVTP 3 × 10)
❺ two screws (+BVTP 3 × 10)
❾ two screws (+BVTP 3 × 10)
⓫ two screws (+BVTP 3 × 10)
❽ SENSOR board
❼ screw (+PTPWH M2.6)
❶ two screws (+BVTP 3 × 10)
❷ SUB TRANS board
❿ SURROUND board
⓬ fan dc

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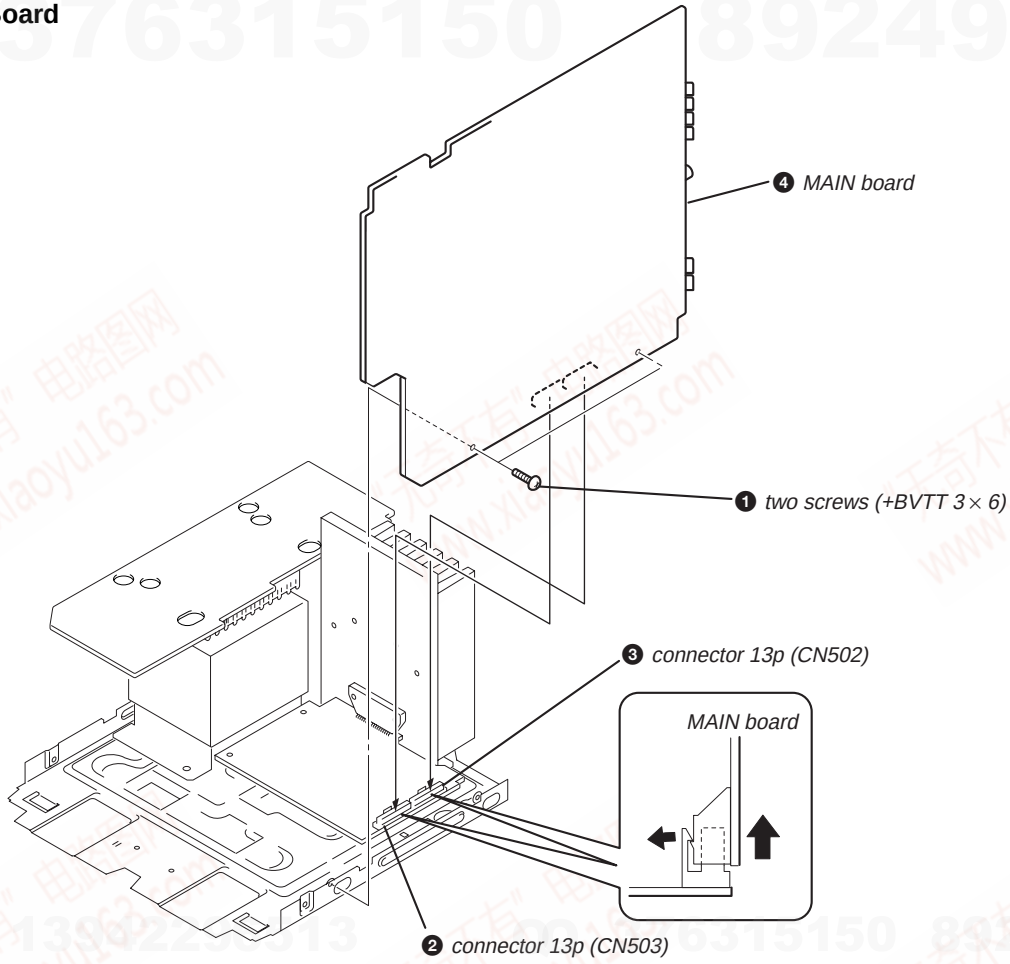
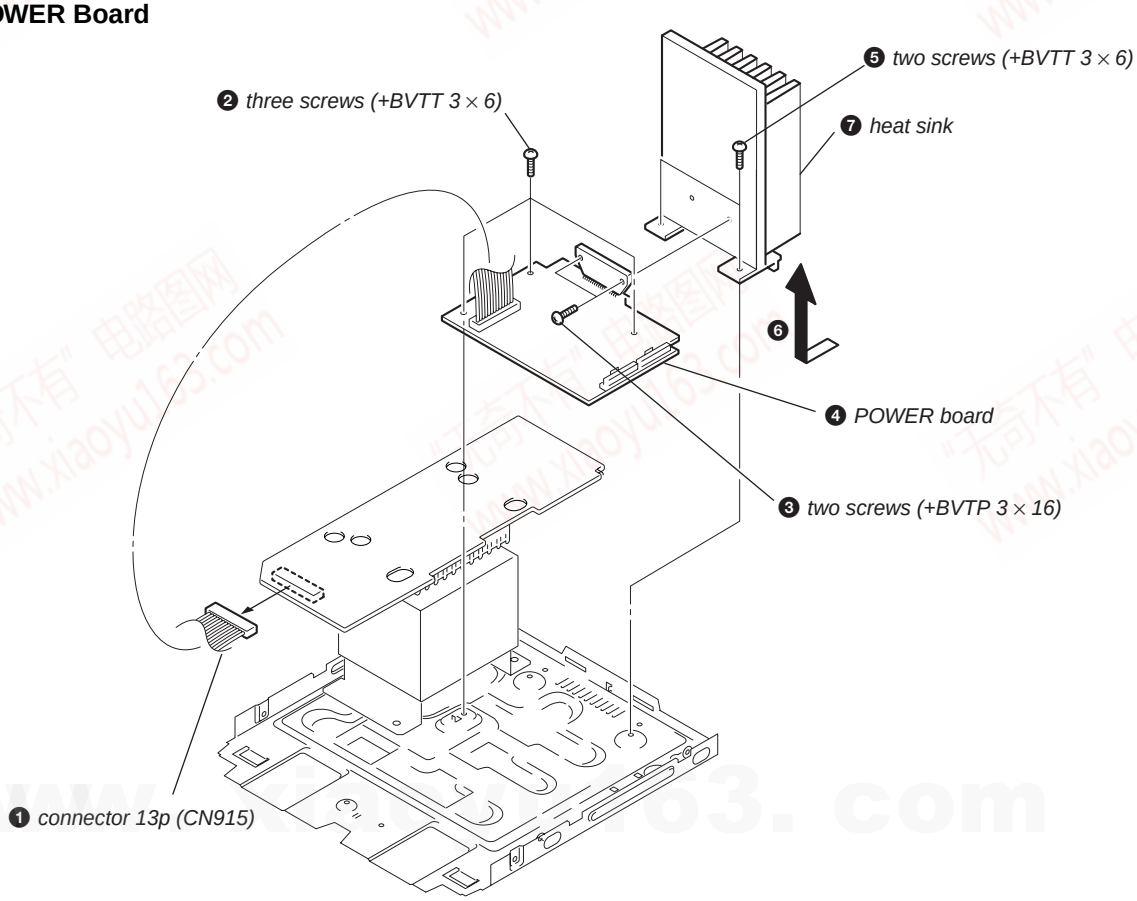
2-10. MAIN Board



2-11. POWER Board



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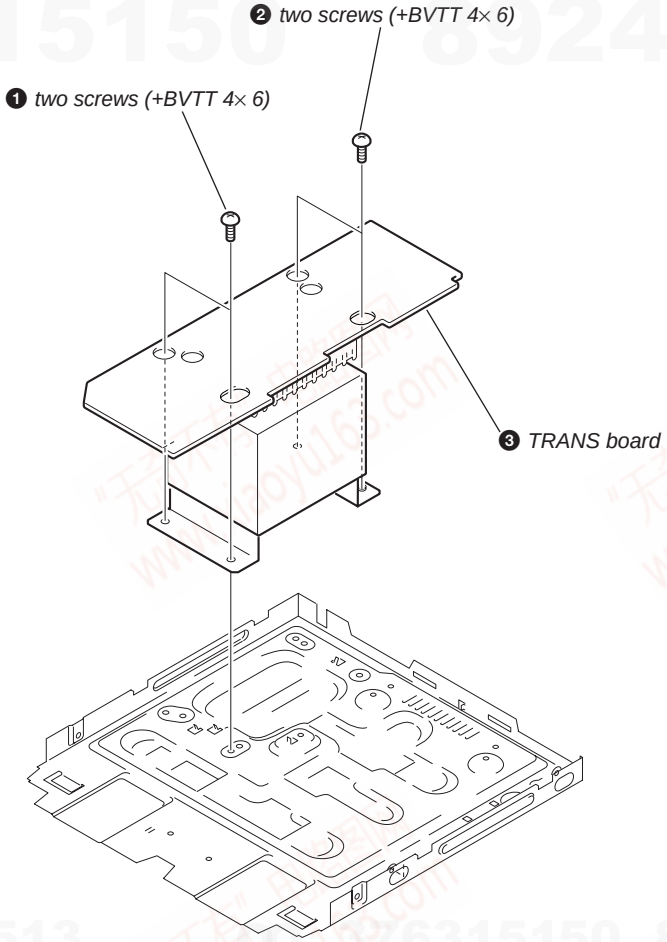
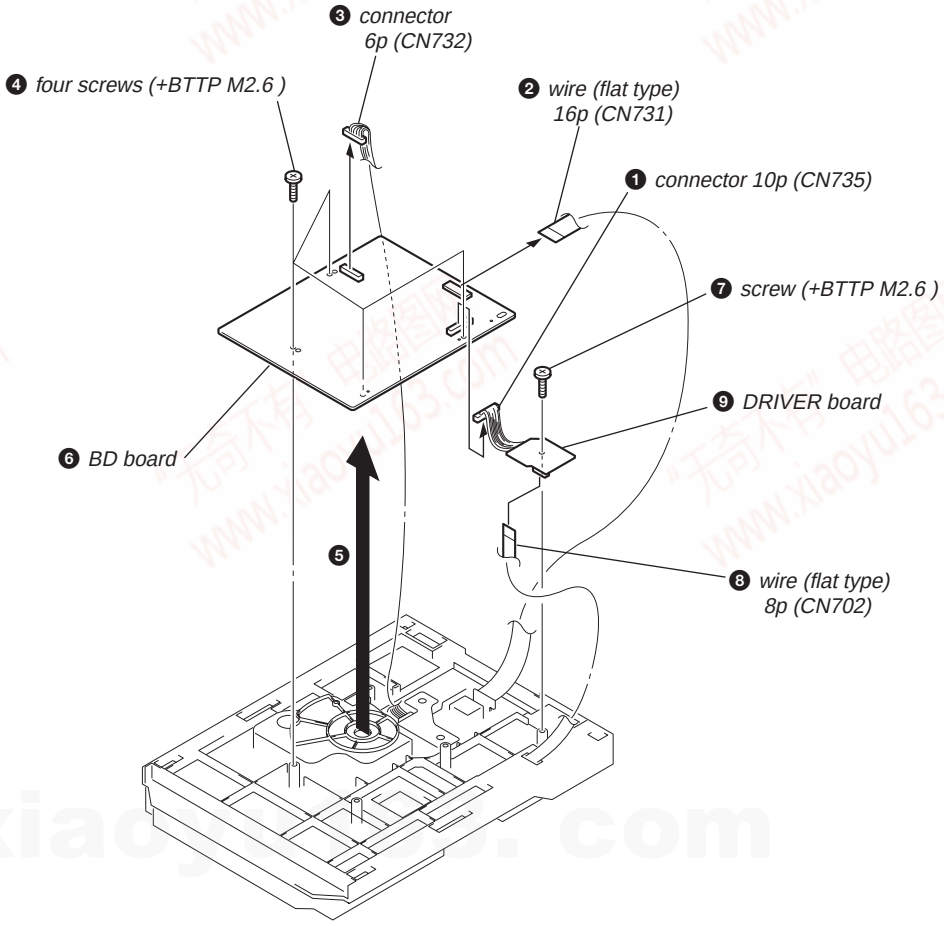
2-12. TRANS Board



2-13. BD Board, DRIVER Board


❸ connector 6p (CN732)
❹ four screws (+BTTP M2.6)
❷ wire (flat type) 16p (CN731)
❶ connector 10p (CN735)
❼ screw (+BTTP M2.6)
❾ DRIVER board
❻ BD board
❺
❽ wire (flat type) 8p (CN702)

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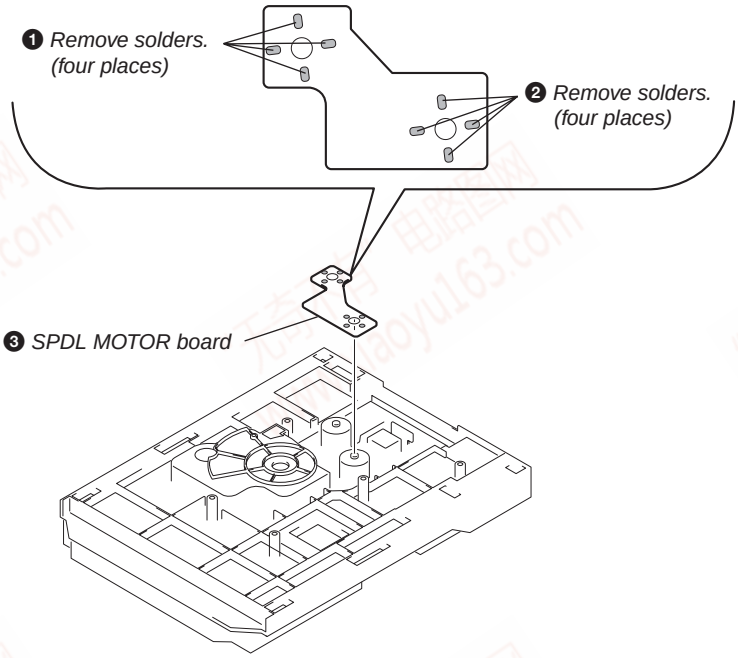
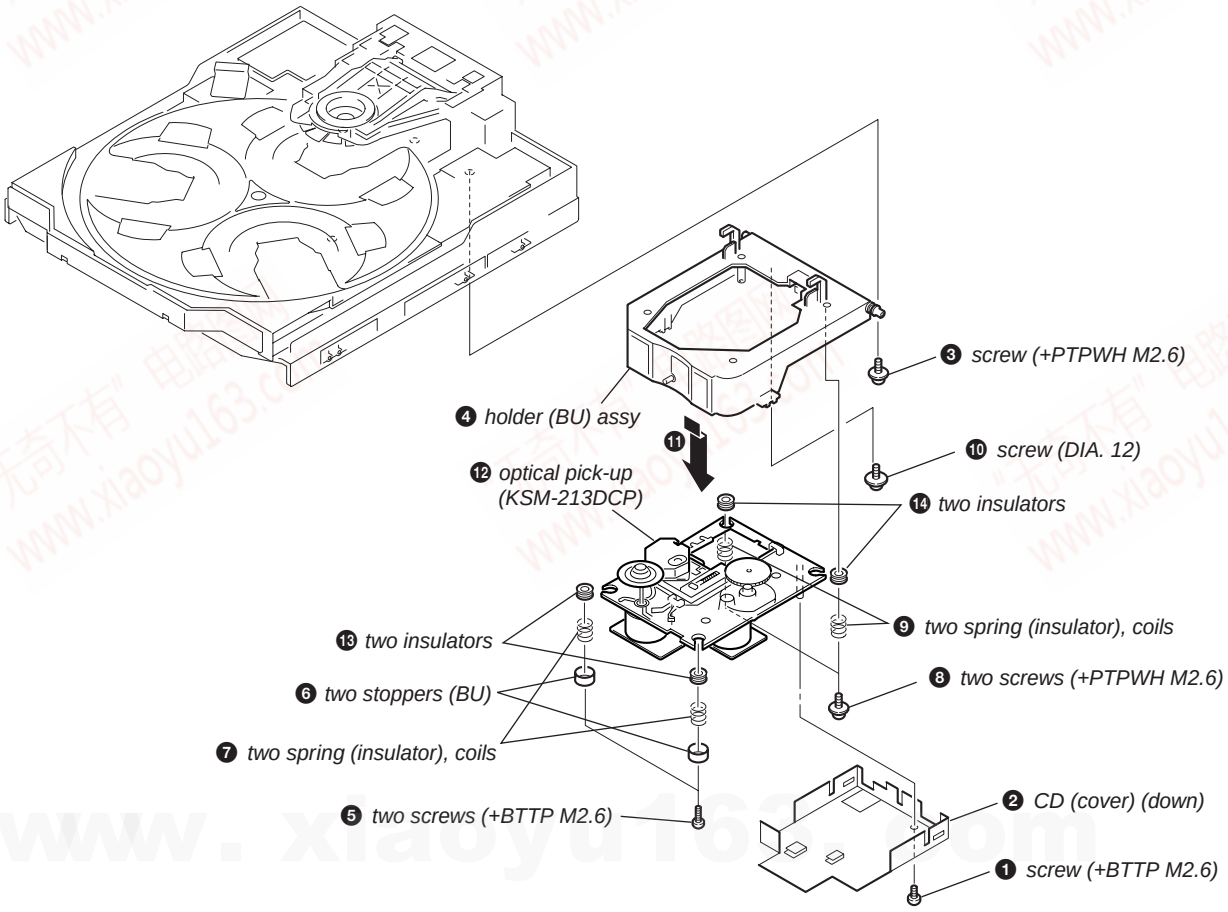
2-14. SPDL MORTR Board



2-15. Optical Pick-up (KSM-213DCP)



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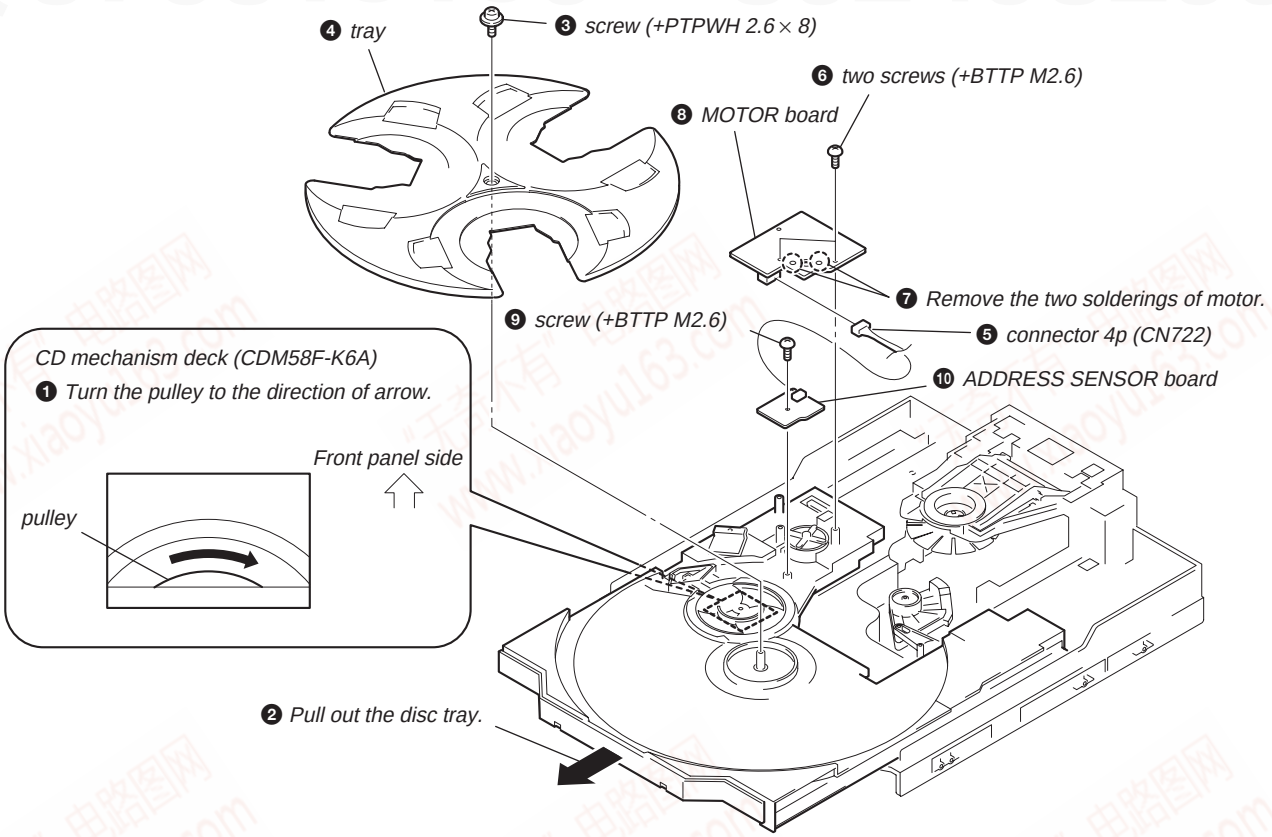
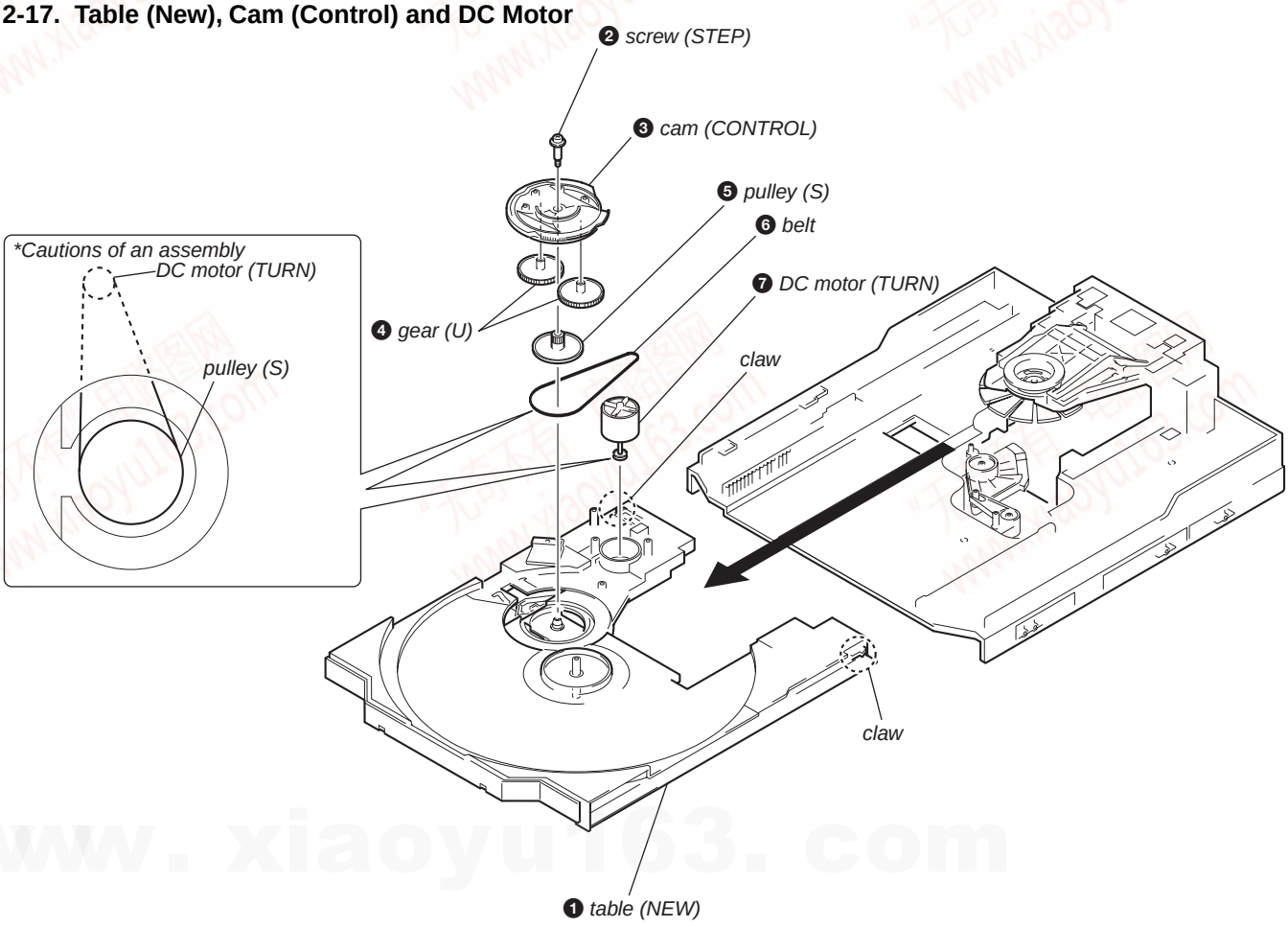
2-16. MOTOR Board, ADDRESS SENSOR Board


❹ tray
❸ screw (+PTPWH 2.6 × 8)
❻ two screws (+BTTP M2.6)
❽ MOTOR board
❼ Remove the two solderings of motor.
❾ screw (+BTTP M2.6)
❺ connector 4p (CN722)
❿ ADDRESS SENSOR board
CD mechanism deck (CDM58F-K6A)
❶ Turn the pulley to the direction of arrow.
Front panel side
pulley
❷ Pull out the disc tray.

2-17. Table (New), Cam (Control) and DC Motor



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SECTION 3
TEST MODE

[Cold Reset]

- The cold reset clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customer.

Procedure:

1. Press three buttons ■ , ENTER , and I/⏻ simultaneously.
2. The fluorescent indicator tube displays “COLD RESET” and the set is reset.

[Aging Mode]

This mode can be used for operation check of CD section and tape deck section.

- If an error occurred:
  The aging operation stops and is displayed status.
- If no error occurs:
  The aging operation continues repeatedly.

1. Operating method of Aging Mode

Turn on the main power and select “CD” of the function.

1) Set three discs in tray. Select ALL DISCS, and REPEAT OFF.
2) Load the tapes recording use into both decks.
3) Press three buttons ■ , GAME EQ, and DISC SKIP/EX-CHANGE simultaneously.
4) Aging operations of CD and tape are started at the same time.
5) To exit the aging mode, perform [Cold Reset].

2. Aging mode in CD section

1) Operation during aging mode

- In the agining mode ,the program is excuted in the following sequence.

(1) The disc tray opens and closes.
(2) The disc tray turns to select a disc 3.
(3) The pick-up accesses to the first track, and plays 3 seconds.
(4) The pick-up accesses to the last track, and plays 3 seconds.
(5) The disc tray opens and closes.
(6) The disc tray turns to select a disc 1.
(7) The same operation starts like step (3).
(8) After a disc 1 aging operation, a disc 2 is selected.
(9) When an aging operation of a disc 3 is completed, the display “AGING ****” value increases.
(10) If no error occurs, the aging operation continues repeatedly.

2) Error display

Disc error	
Display	Error
E00D01022	Focus error (No disc)
E00D02022	Sub Q error (Focus is good)
E00D02023	TOC reading error
E00D02014	Access error (Unable within regular time)

Mechanism error	
Display	Error
E00M__E_0	Error during opening tray
E00M__C_2	EX-CHANGE disc error
E00M__D_0	Error during closing tray
E00M__F_3	EX-OPEN error
E00M__D_5	EX-CLOSE error
E00M__C_2	Chuck-up error
E00M__C_3	Unchucking error

3. Aging mode in Tape Deck section

1) Operation during aging mode

- In the agining mode, the program is excuted in the following sequence.

Step	Operation	Display
1	Rewind the TAPE A	TAPE AAG-01
2	Rewind the TAPE B	TAPE BAG-01
3	Play the TAPE A (1 minute)	TAPE AAG-02
4	Stop the TAPE A (1 second)	TAPE AAG-03
5	Play the TAPE A (3 minutes)	TAPE AAG-04
6	Rewind(AMS) the TAPE A	TAPE AAG-05
7	F.F.(AMS) the TAPE A	TAPE AAG-06

2) Error display

- If error occurred, the display remains like “TAPE BAG-2”.

4. Exiting from the aging mode

- Be sure to perform Cold Reset to exit from the aging mode.

[GC Test Mode]

- All fluorescent segments and LEDs are tested.
- Keyboard check.

Procedure:

1. Press the I/⏻ button to turn the set ON.
2. To enter the test mode, press the three buttons ■, GAME EQ and DISC 2 simultaneously.
3. All segments and LEDs are turned on.
4. Press the GAME EQ and DISC 2 buttons simultaneously, and the key check mode is activated.
5. The message “KEY 0 0 0 ” is displayed.
   Each time a button is pressed, the key code number is displayed.
6. Press the GAME EQ and DISC 2 buttons simultaneously, and the key count mode is activated.
7. The message “KEYCNT 0 1” is displayed.
   Each time a button is pressed, “KEYCNT 0 1” value increased. However, once a button is pressed, it is no longer taken into account.
8. Press the GAME EQ and DISC 2 buttons simultaneously, and the head phone detect mode is activated.
9. The message “H_P OFF” is displayed when a headphone jack is not inserted.
   “H_P ON ” is displayed when a headphone jack is inserted.
10. Press the GAME EQ and DISC 2 buttons simultaneously, and the volume control detect mode is activated.
11. The message “VOLUME FLAT” is displayed.
    “VOLUME UP” is displayed if rotating VOLUME knob clockwise, or “VOLUME DOWN” is displayed if rotating counterclockwise.
12. To exit from the GC test mode after the volume control detect mode, press the GAME EQ and DISC 2 buttons simultaneously.

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[Version and Destination Display Mode]

- The version or destination is displayed.

Procedure:

1. Press the I/⏻ button to turn the set ON.
2. To enter the test mode, press the three buttons ■, GAME EQ and MOVIE EQ simultaneously.
3. The destination is displayed.
4. Press the ■ and ENTER buttons simultaneously.
5. The version is displayed.
6. To exit from this mode, press the I/⏻ button to turn the set OFF.

[CD Service Mode]

- This mode can run the CD sled motor freely. Use this mode, for instance, when cleaning the pick-up.

Procedure:

1. Press the I/⏻ button to turn the set ON.
2. Select the function “CD”.
3. To enter the test mode, press three buttons ■, GAME EQ, and OPEN/CLOSE simultaneously.
4. The message “CD S” is displayed. The CD service mode is selected.
5. With the CD in stop status, press the ►► + button to move the pick-up to outside track and “CD S -F” is displayed, or press the – ◄◄ button to inside track and “CD S -R” is displayed.
6. To exit from this mode, perform as follows:
   1) Move the pick-up to the most inside track.
   2) Perform Cold Reset.

Note:
- Always move the pick-up to most inside track when exiting from this mode. Otherwise, a disc will not be unloaded.
- Do not run the sled motor excessively, otherwise the gear can be chipped.

[MC Test Mode]

- This mode is used to test the function of the equalizer.

Procedure:

1. Press the I/⏻ button to turn the set ON.
2. To enter the test mode, press the three buttons ■, GAME EQ and DISC 3 simultaneously.
3. Press the MOVIE EQ button.
   The function of the equalizer is set to “GEQ MIN”.
4. Press the MUSIC EQ button.
   The function of the equalizer is set to “GEQ MAX”.
5. Press the P FILE button.
   The function of the equalizer is set to “GEQ FLAT”.
6. To exit from this mode, press the I/⏻ button to turn the set OFF.

[CD Ship Mode (No Memory Clear)]

- This mode moves the pick-up to the position durable to vibration. Use this mode when returning the set to the customer after repair.

Procedure:

1. Press the I/⏻ button to turn the set ON.
2. Select the function “CD”.
3. Press the I/⏻ button to turn the set OFF.
4. Press the CD button and I/⏻ button simultaneously.
5. The "STANDBY" display blinks instantaneously, then “LOCK” is displayed and the CD ship mode is set.

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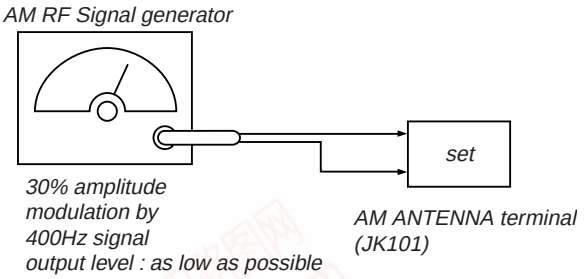
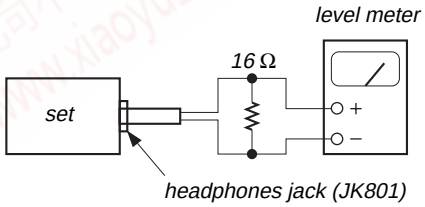
SECTION 4
ELECTRICAL ADJUSTMENTS

AM IF Adjustment



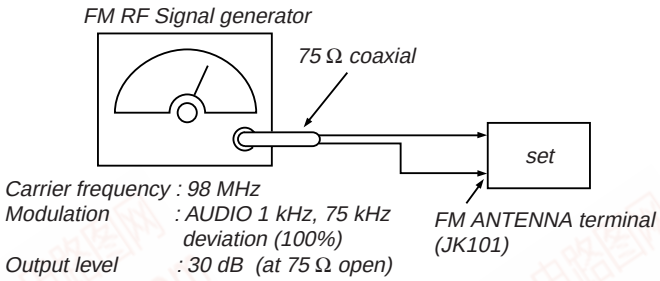


Procedure:

1. Set the frequency of the AM RF signal generator to 1000 kHz (at 10 kHz step) or 999 kHz (at 9 kHz step).
2. Tune the set to AM 1000 kHz (at 10 kHz step) or 999 kHz (at 9 kHz step).
3. Adjust IFT101 so that the reading on level meter becomes in maximum.

TUNER SECTION

FM Tuned Level Adjustment

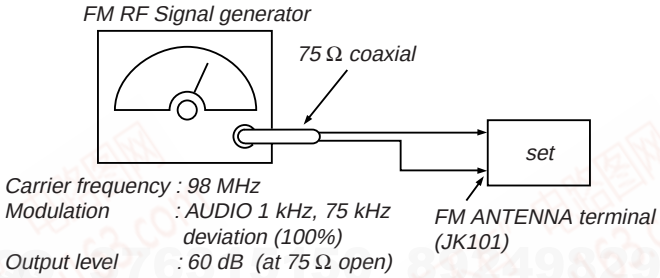

FM RF Signal generator
75 Ω coaxial
set
Carrier frequency : 98 MHz
Modulation : AUDIO 1 kHz, 75 kHz deviation (100%)
Output level : 30 dB (at 75 Ω open)
FM ANTENNA terminal
(JK101)

Procedure:

1. Supply a 98 MHz signal at 28 dB from the ANTENNA terminal.
2. Tune the set to 98 MHz.
3. Adjust RV101 to the point (moment) when the TUNED indicator will change from going off to going on.

Adjustment Location: MAIN board

Null Adjustment

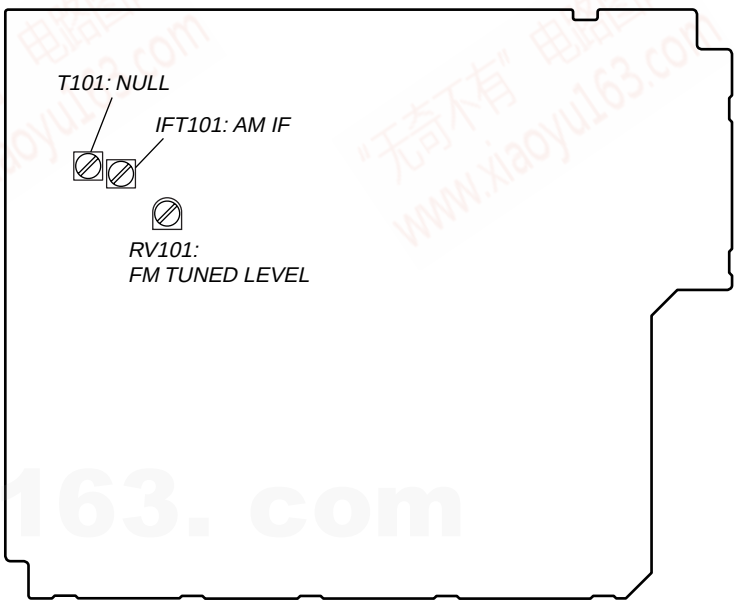

FM RF Signal generator
75 Ω coaxial
set
Carrier frequency : 98 MHz
Modulation : AUDIO 1 kHz, 75 kHz deviation (100%)
Output level : 60 dB (at 75 Ω open)
FM ANTENNA terminal
(JK101)

Procedure:

1. Supply a 98 MHz signal at 60 dB from the ANTENNA terminal.
2. Tune the set to 98 MHz.
3. Measure voltage between pin 21 and pin 23 of IC 101. Adjust T101 until the voltage becomes 0 V.

Adjustment Location: MAIN board

[MAIN BOARD] Component side



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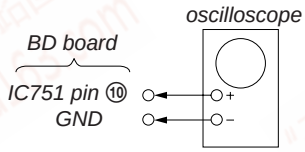
CD SECTION

Note :

1. CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10MΩ impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

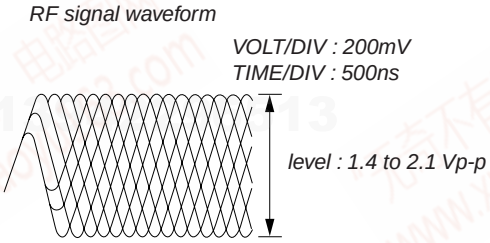
RF Level Check



Procedure :

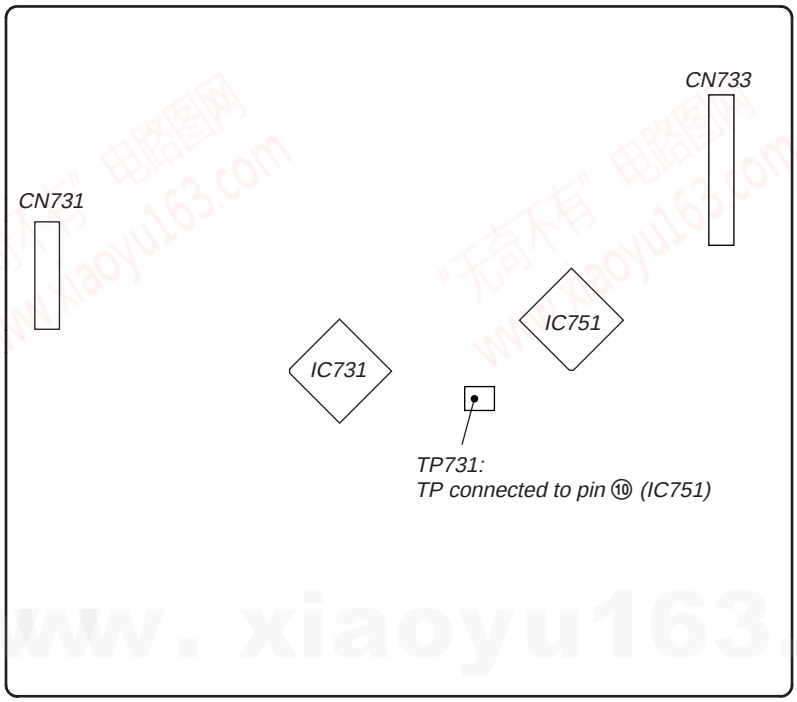
1. Connect an oscilloscope to pin ⑩ (IC751).
2. Turn the power on.
3. Load a disc (YEDS-18) and playback the number five track.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Note : Clear RF signal waveform means that the shape " ◊ " can be clearly distinguished at the center of the waveform.



Adjustment Location: BD board

[BD BOARD] (Component Side)



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SECTION 5
DIAGRAMS

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

Note on Schematic Diagram:

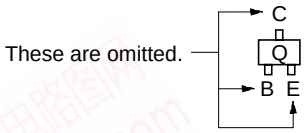
- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.

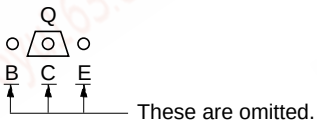
Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- ▬ : B+ Line.
- ▬ ▬ : B– Line.
- ▭ : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
  no mark : FM
  < > : CD
  [ ] : TAPE
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  : FM
  : PB (DECK A)
  : PB (DECK B)
  : REC (DECK B)
  : CD
  : DIGITAL OUT
- Abbreviation
  AUS : Australian model.
  SP : Singapore model.

Note on Printed Wiring Boards:

- o——— : parts extracted from the component side.
- ▒▒▒ : Pattern from the side which enables seeing.
- Indication of transistor.





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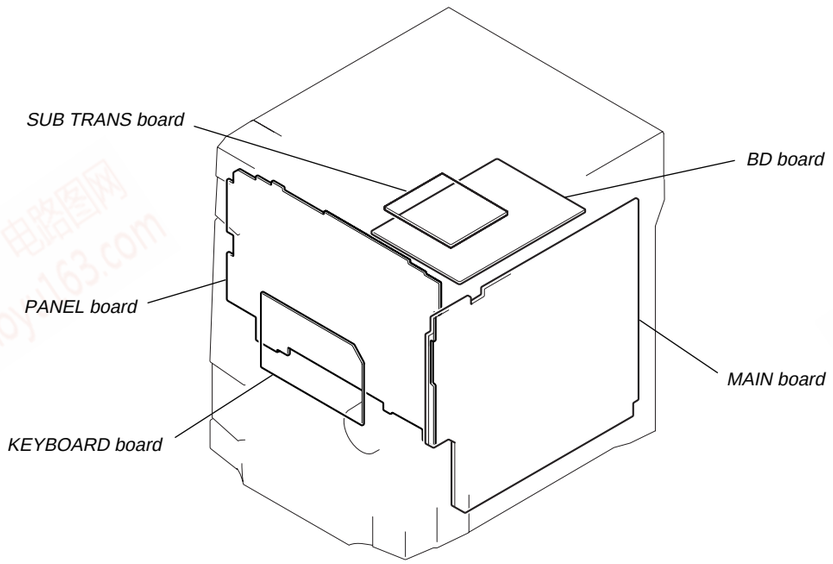
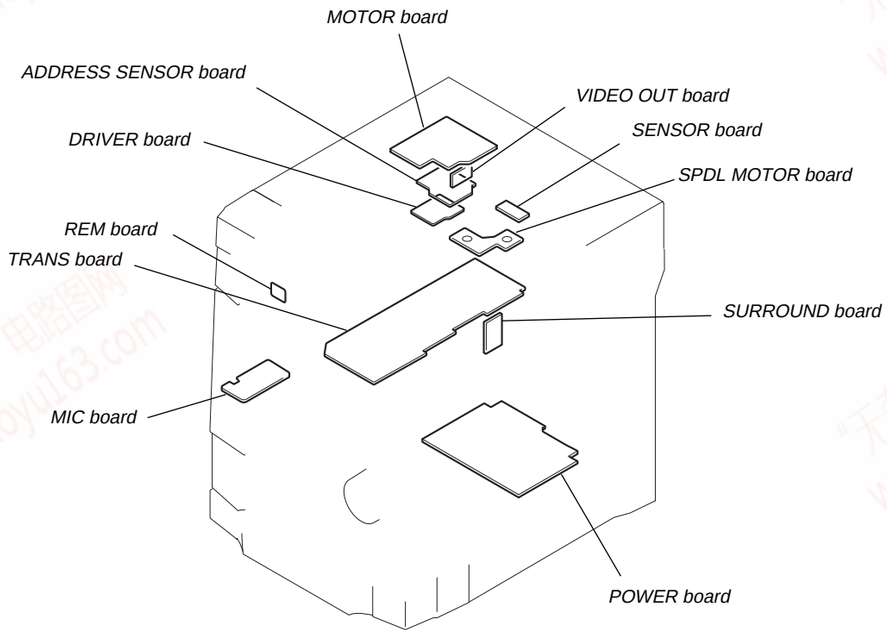
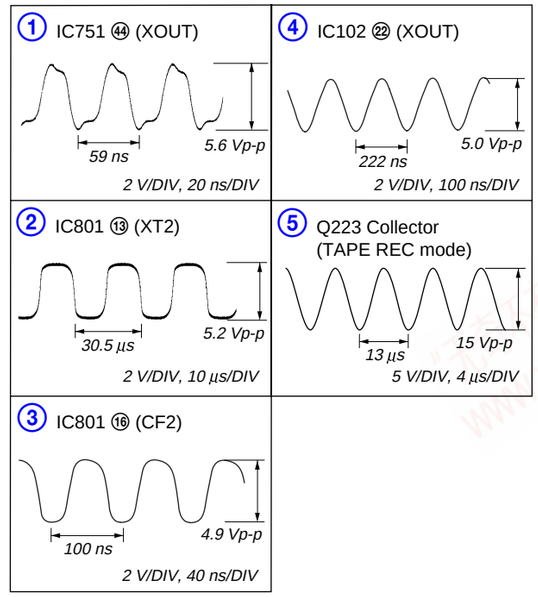
5-1. Circuit Boards Location





• **Waveforms**



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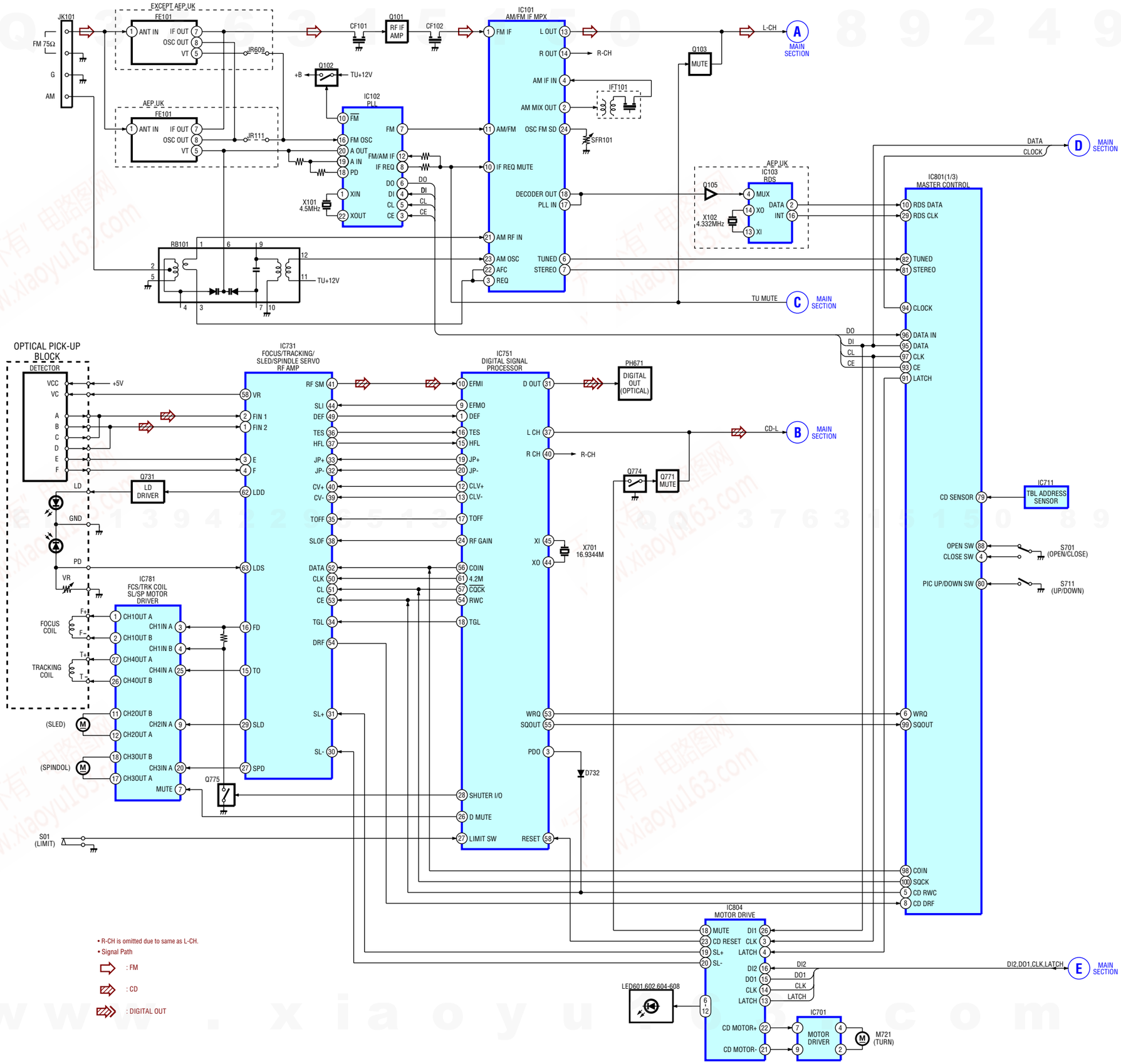
5-2. Block Diagrams –TUNER Section–



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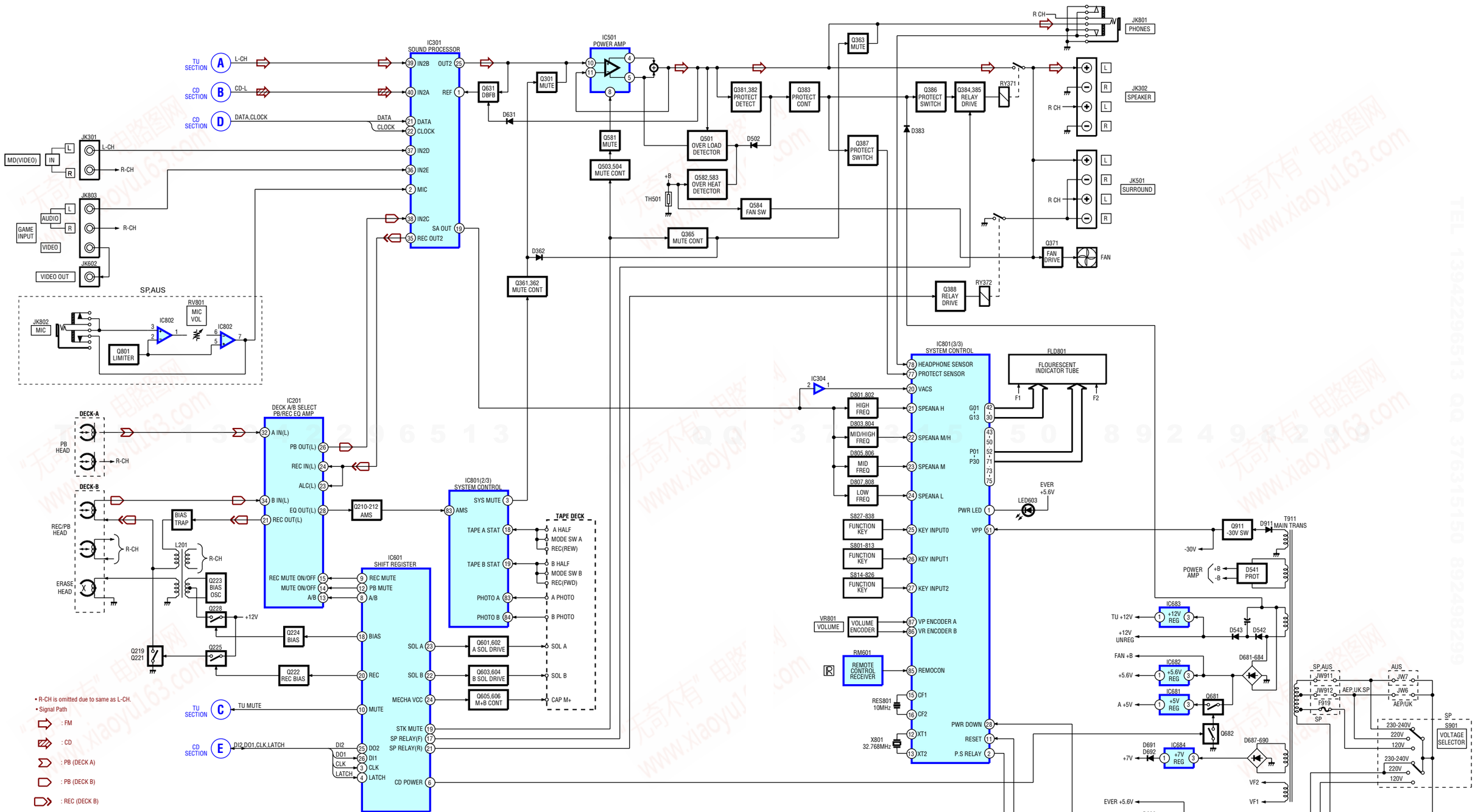
MAIN Section



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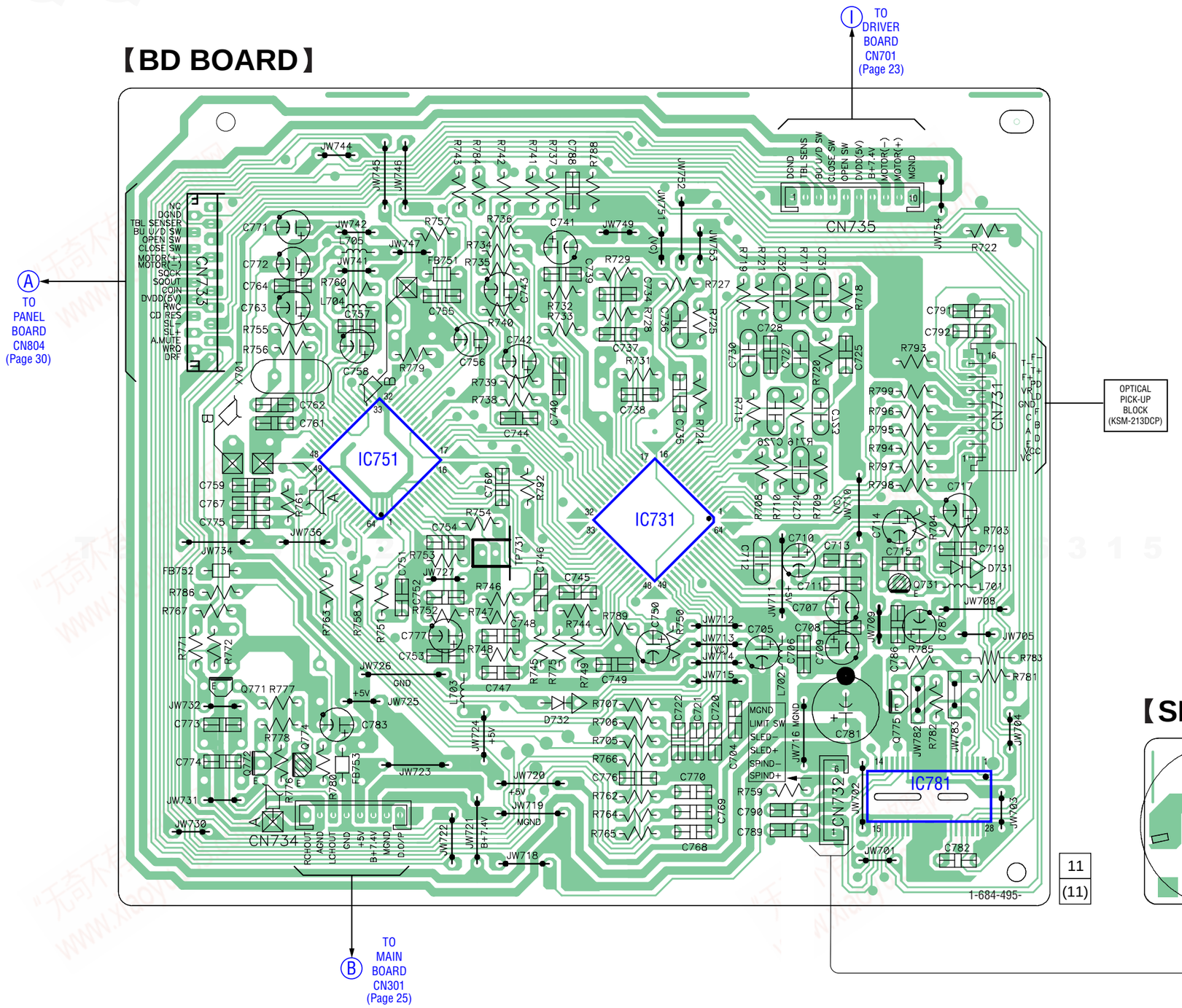
5-3. Printed Wiring Boards – CD Section (1/2) – • See page 19 for Circuit Boards Location.

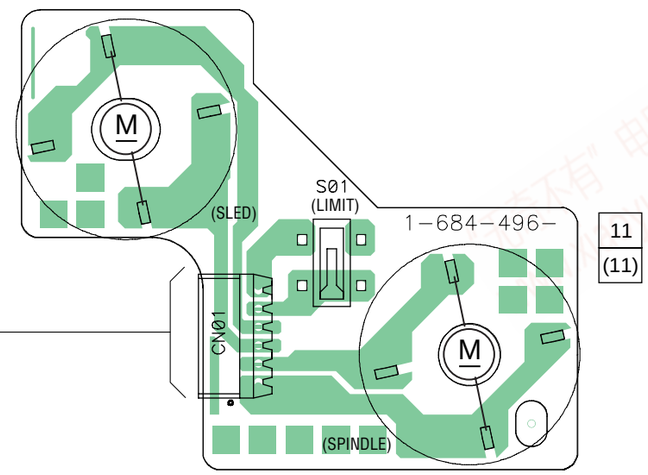
【BD BOARD】



- **Semiconductor Location**

Ref. No.	Location
D731	D-6
D732	E-4
IC731	D-4
IC751	C-3
IC781	E-6
Q731	D-6
Q771	E-2
Q772	E-2
Q774	E-2
Q775	E-6

【SPDL MOTOR BOARD】



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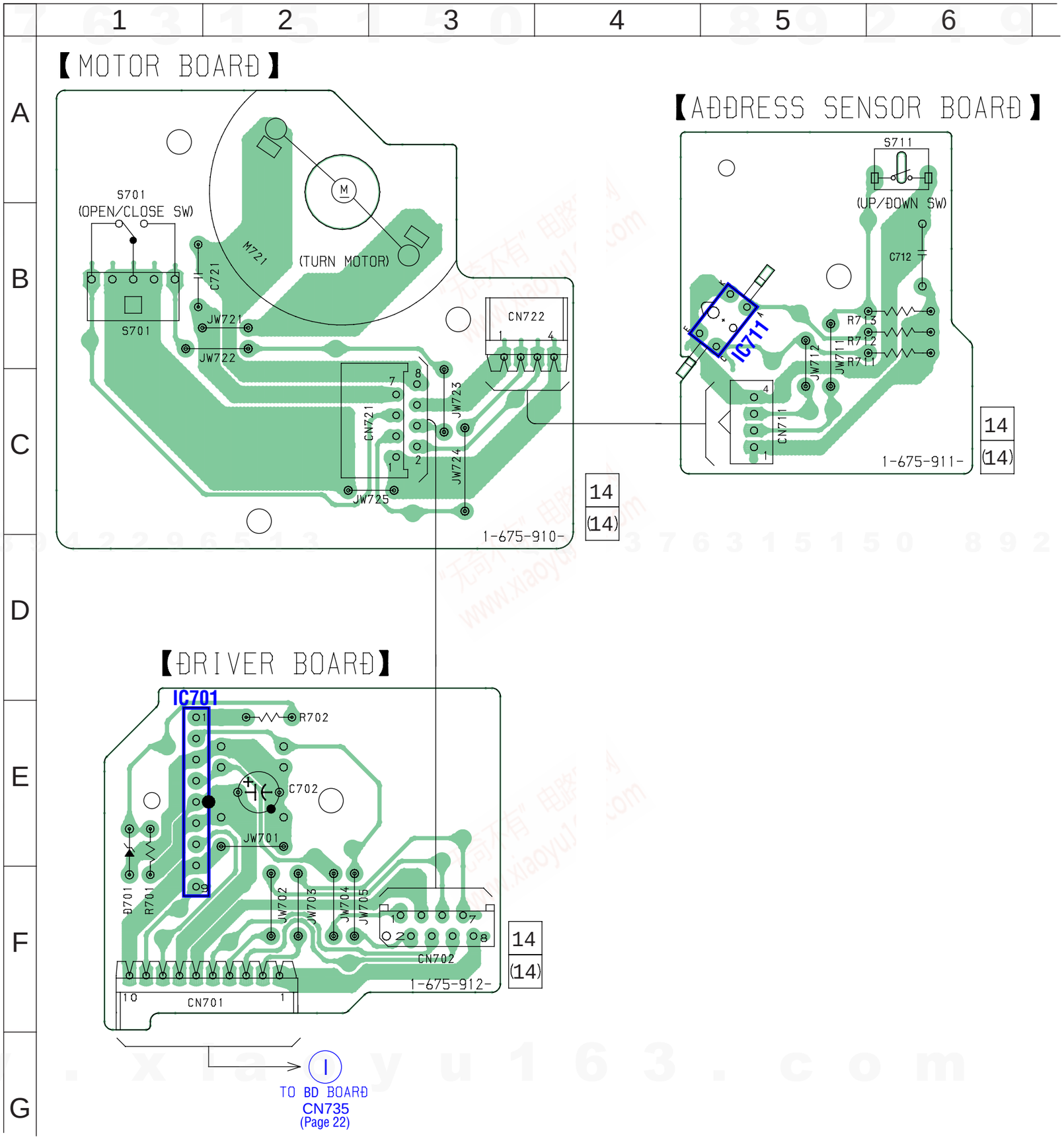
5-4. Printed Wiring Boards – CD Section (2/2) – • See page 19 for Circuit Boards Location.



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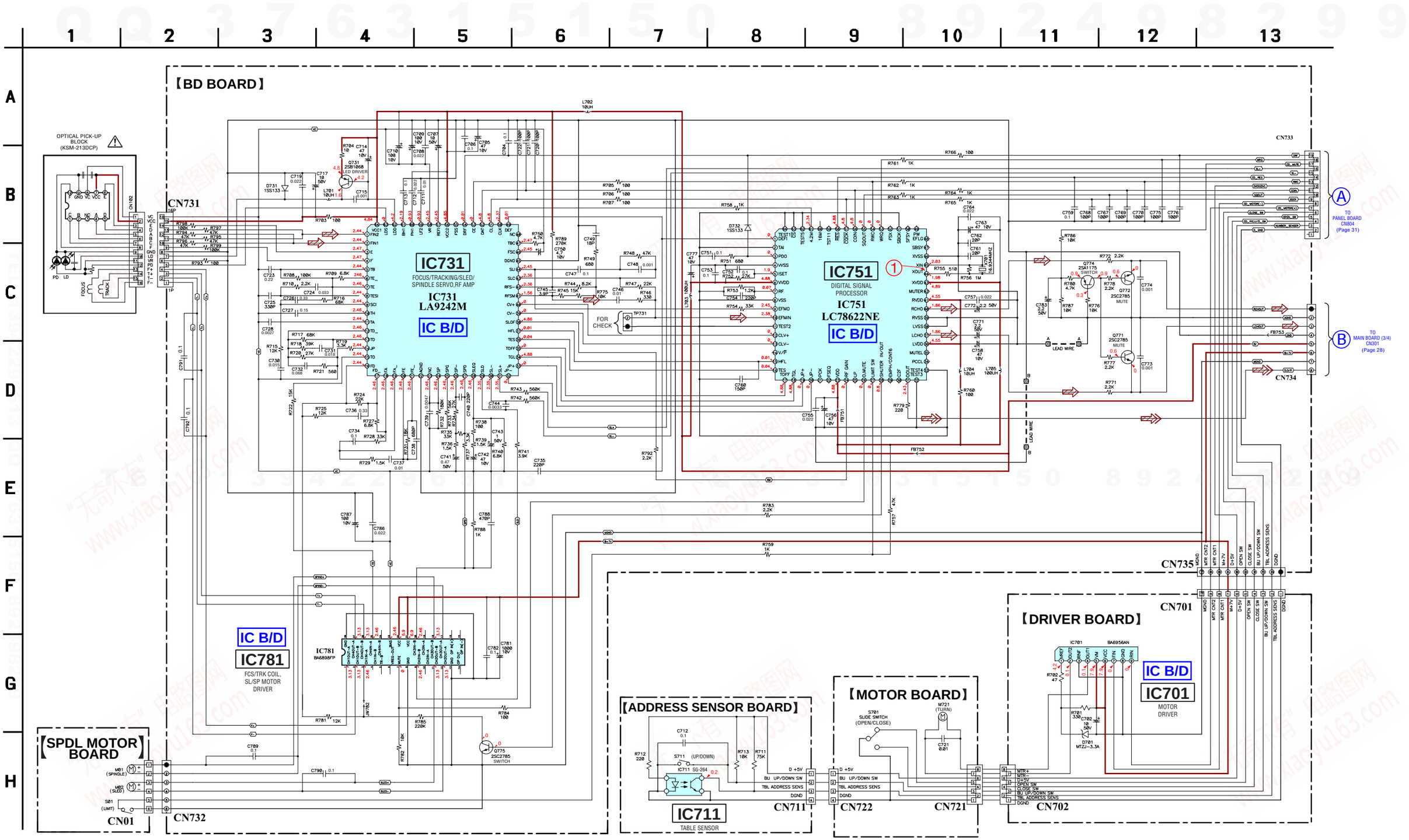
5-5. Schematic Diagram – CD Section – • See page 35 for IC Block Diagrams. • See page 19 for Waveforms.



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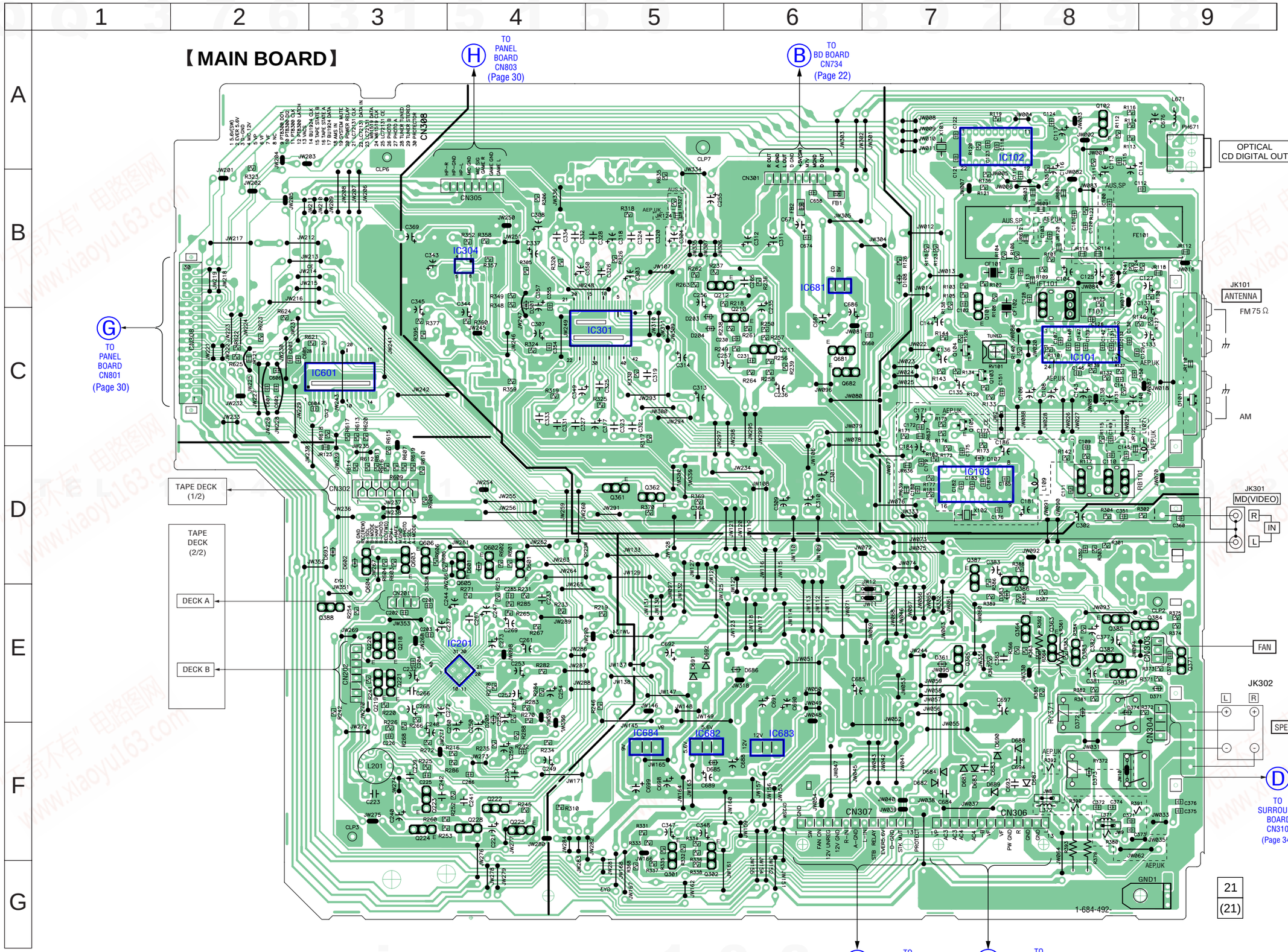
5-6. Printed Wiring Board – MAIN Section – • See page 19 for Circuit Boards Location.



- **Semiconductor Location**

Ref. No.	Location
D101	C-9
D107	D-7
D108	B-7
D203	C-5
D204	C-5
D205	E-4
D301	B-4
D361	E-7
D371	E-9
D372	E-8
D373	F-8
D374	E-9
D383	E-8
D601	D-4
D602	D-3
D681	F-7
D682	F-7
D683	F-7
D684	F-7
D685	F-5
D686	E-6
D687	F-8
D688	F-8
D689	F-8
D690	F-8
D691	E-5
D692	E-5
D693	D-3
IC101	C-8
IC102	A-8
IC103	D-7
IC201	E-4
IC301	C-5
IC304	B-4
IC601	C-3
IC681	B-6
IC682	F-5
IC683	F-6
IC684	F-5
Q101	C-7
Q102	A-8
Q103	C-7
Q104	C-7
Q105	C-7
Q210	C-6
Q211	C-6
Q212	B-5
Q218	E-3
Q219	E-3
Q220	E-3
Q221	E-3
Q222	F-4
Q223	F-3
Q224	F-3
Q225	F-4
Q228	F-4
Q301	G-5
Q302	G-5
Q361	D-5
Q362	D-5
Q363	E-8
Q364	E-8
Q365	E-7
Q371	E-9
Q381	E-8
Q382	E-8
Q383	E-8
Q384	E-9
Q385	E-8
Q386	E-8
Q387	D-7
Q388	E-3
Q601	D-4
Q602	D-4
Q603	D-3
Q604	D-3
Q605	D-4
Q606	D-3
Q681	C-6
Q682	C-6

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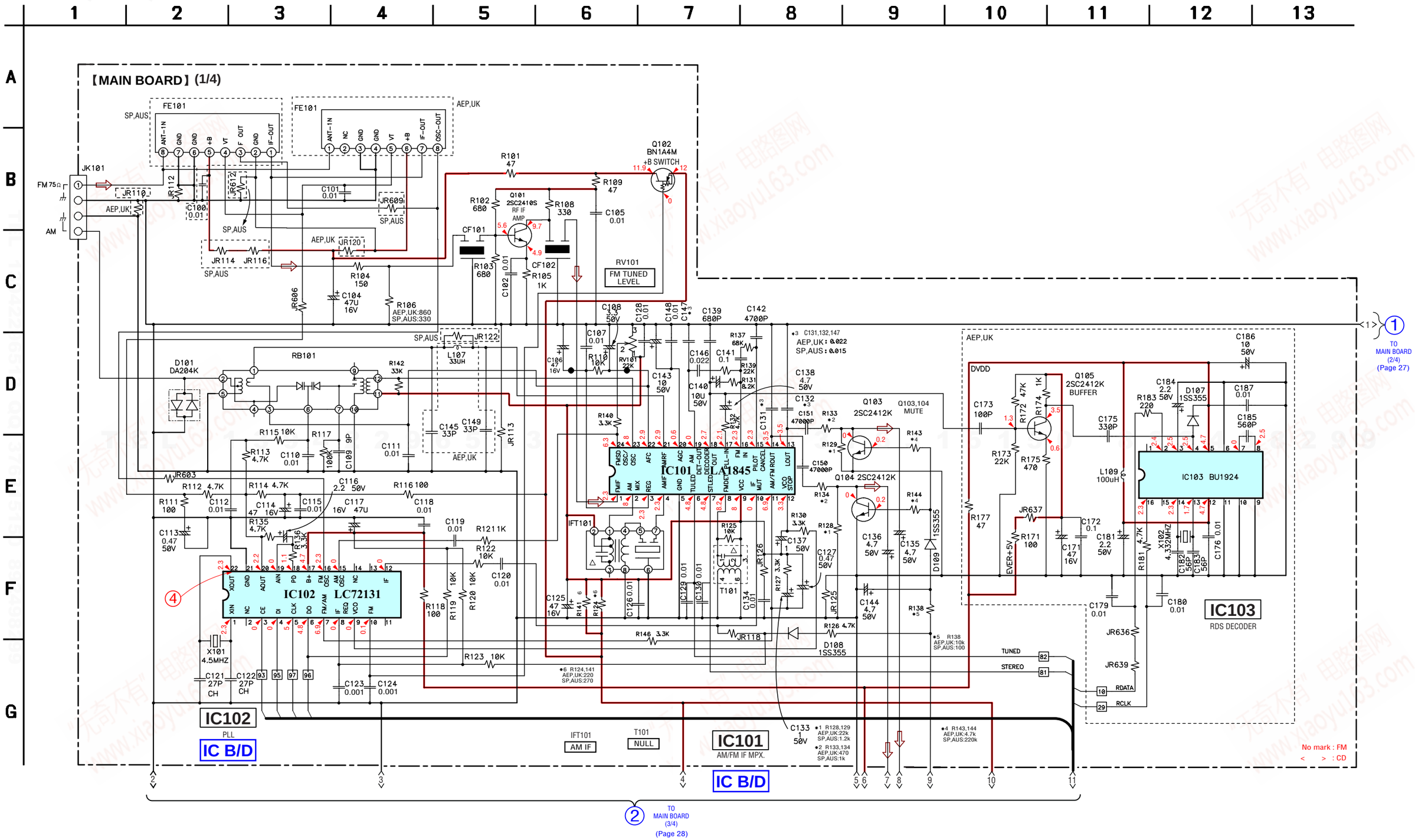
5-7. Schematic Diagram – MAIN Section (1/4) – • See page 36, 37 for IC Block Diagrams. • See page 19 for Waveforms.



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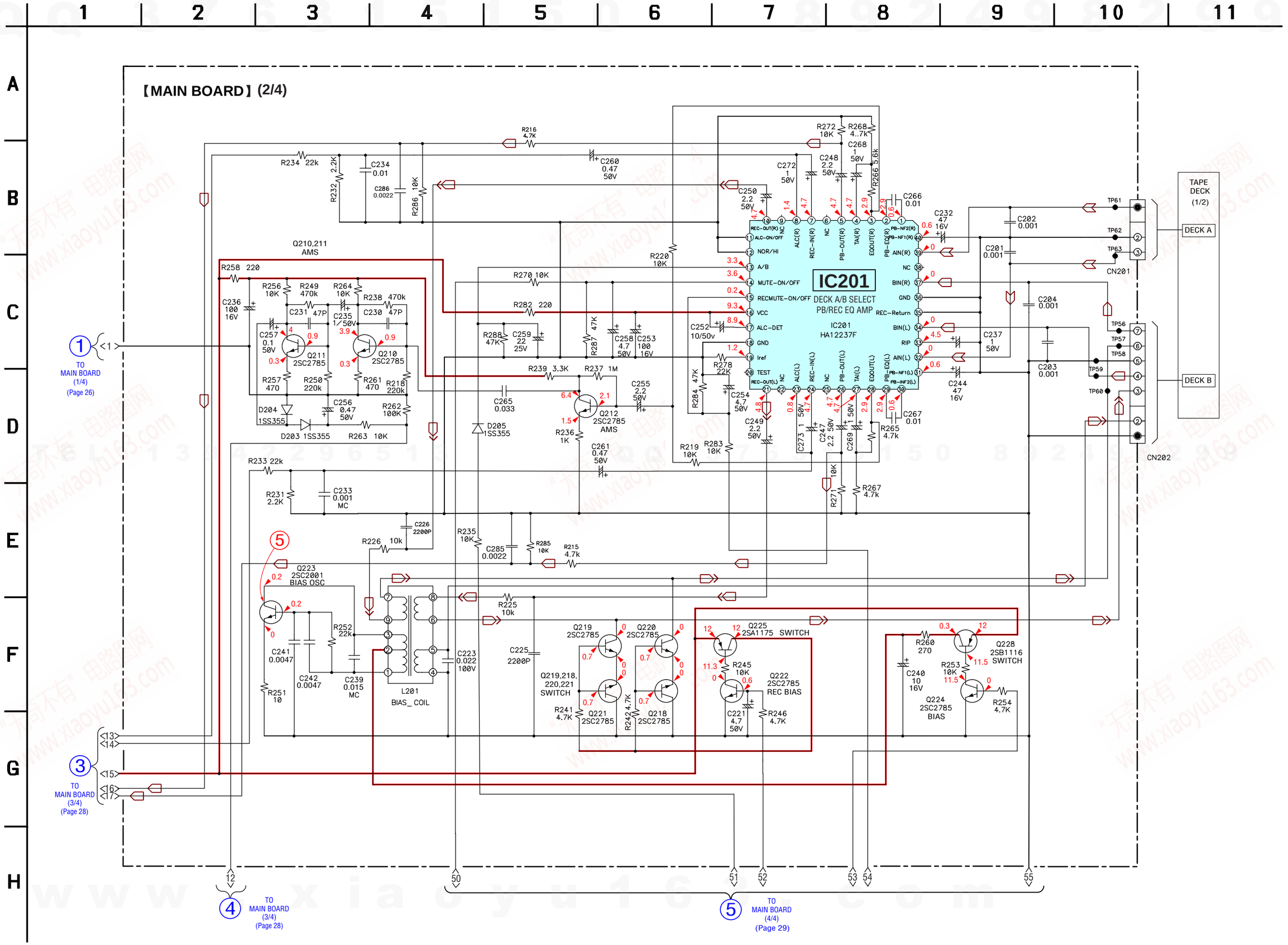
5-8. Schematic Diagram – MAIN Section (2/4) – • See page 19 for Waveforms.



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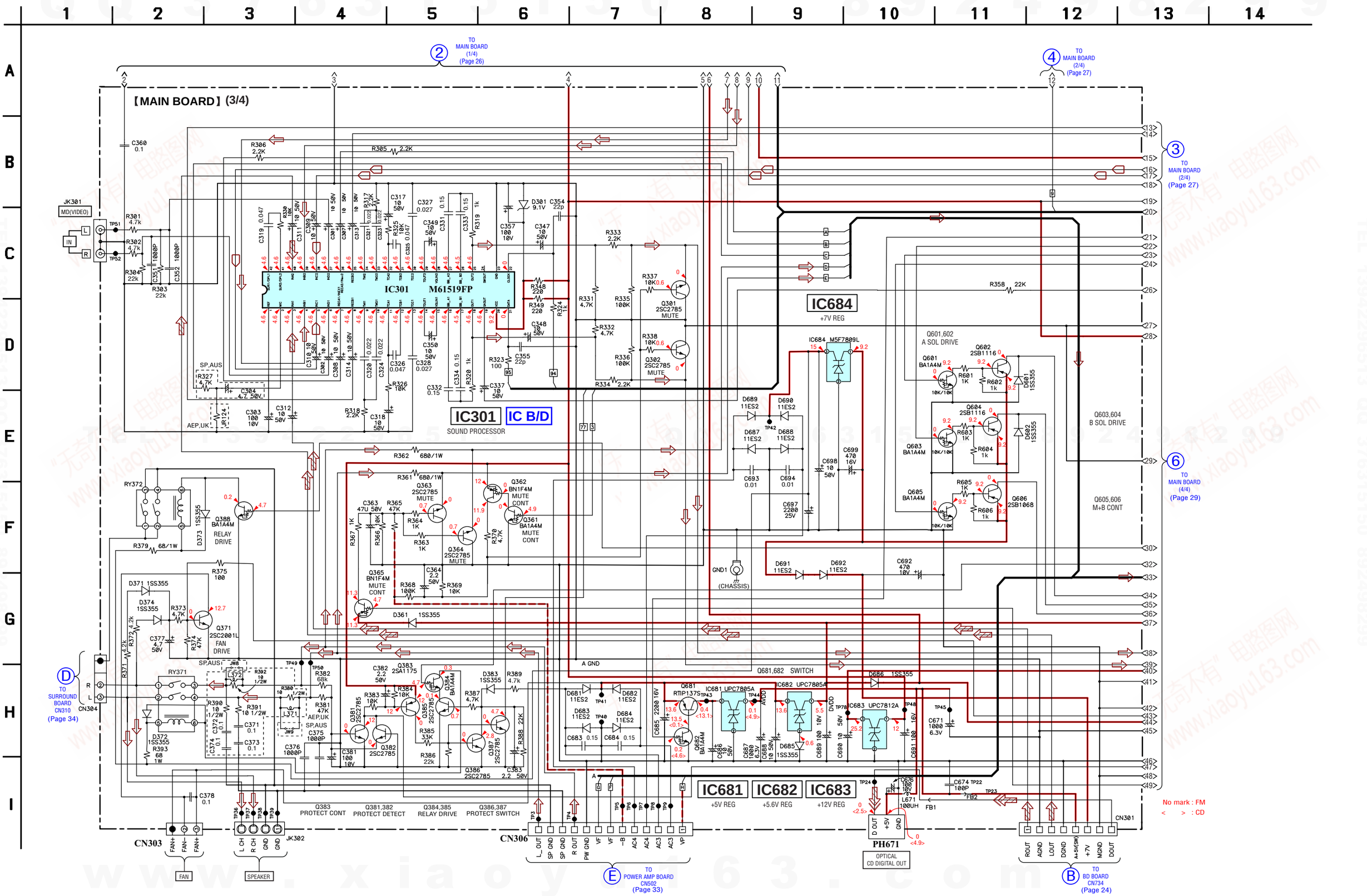
5-9. Schematic Diagram – MAIN Section (3/4) – • See page 36 for IC Block Diagrams.



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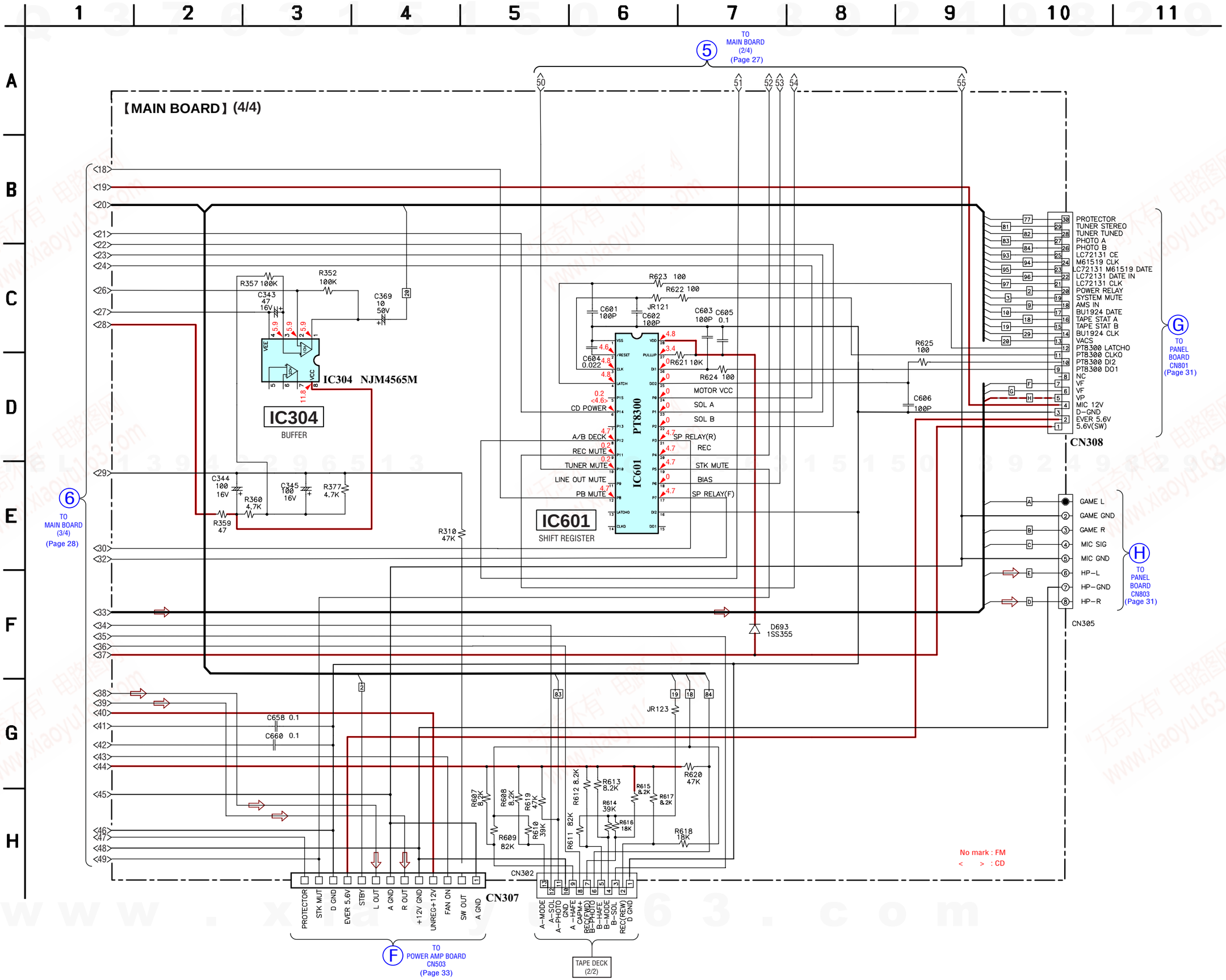
5-10. Schematic Diagram – MAIN Section (4/4) –



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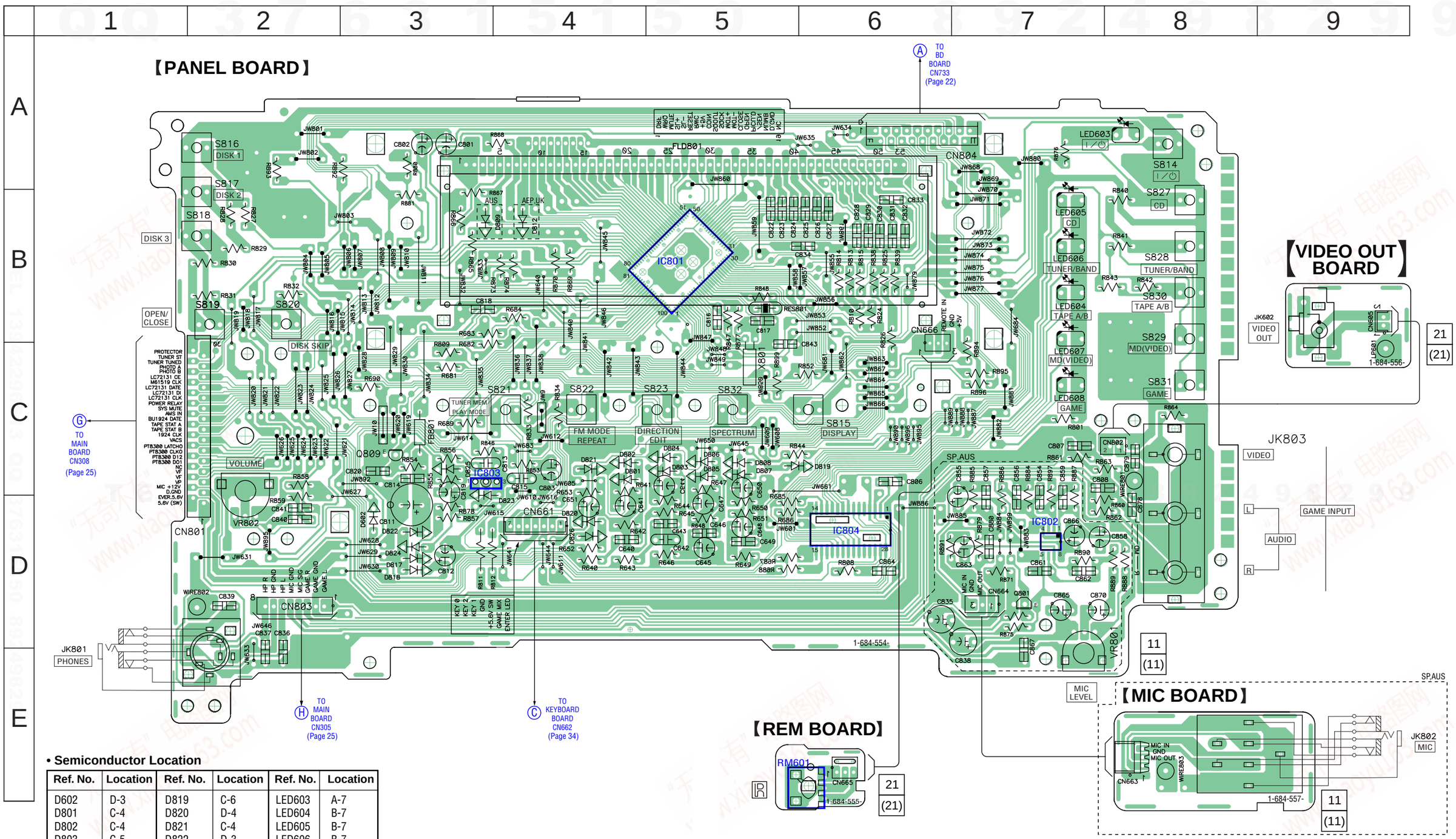
5-11. Printed Wiring Boards – PANEL Section – • See page 19 for Circuit Boards Location.



• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D602	D-3	D819	C-6	LED603	A-7
D801	C-4	D820	D-4	LED604	B-7
D802	C-4	D821	C-4	LED605	B-7
D803	C-5	D822	D-3	LED606	B-7
D804	C-5	D823	D-4	LED607	C-7
D805	C-5	D824	D-3	LED608	C-7
D806	C-5	D825	C-3		
D807	C-5	D826	D-4	Q801	D-7
D808	C-5			Q809	C-3
D809	B-4	IC801	B-5		
D812	B-4	IC802	D-7		
D817	D-3	IC803	C-3		
D818	D-3	IC804	D-6		

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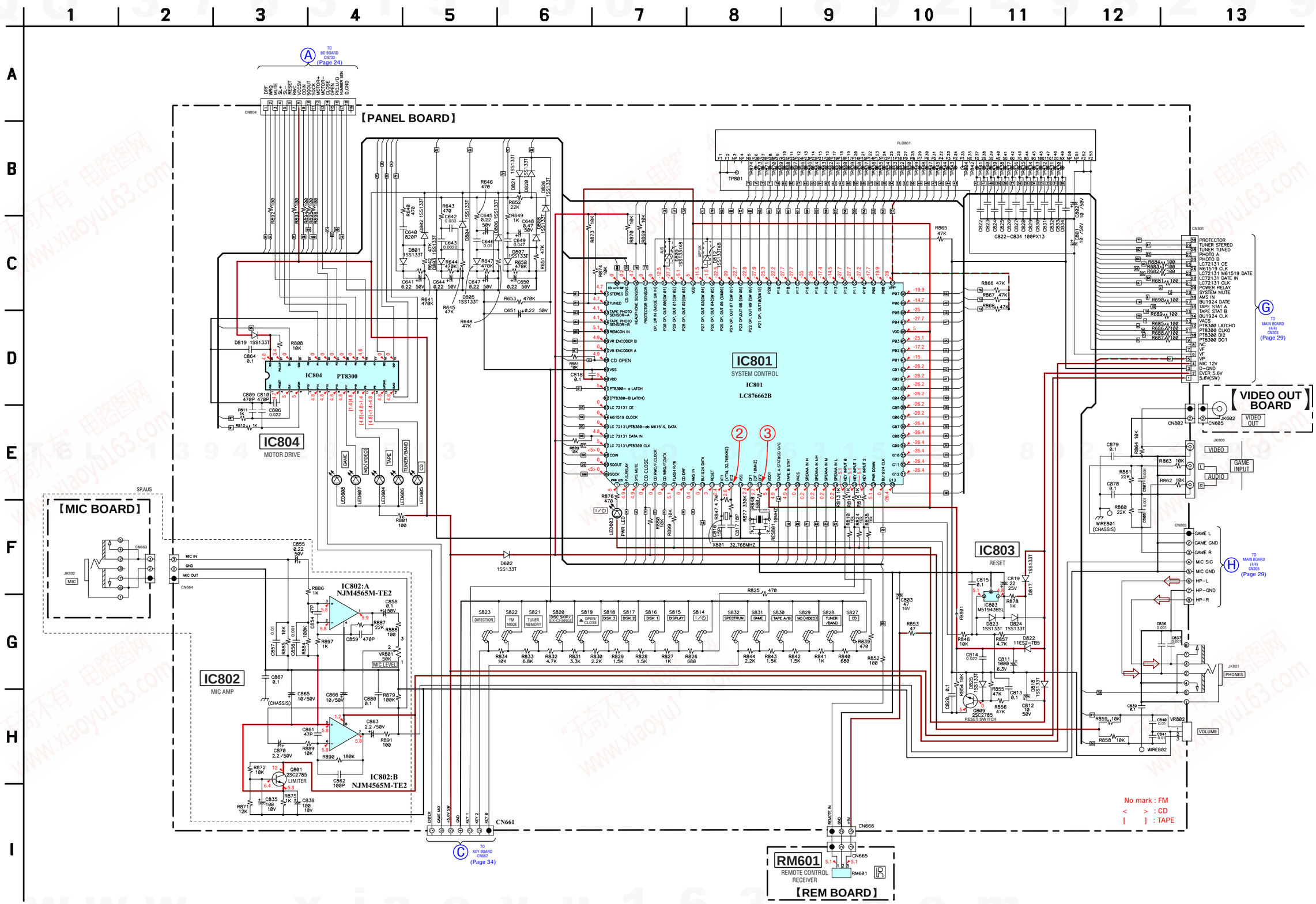
5-12. Schematic Diagram – PANEL Section – • See page 38 for IC Pin Function Description. • See page 19 for Waveforms.



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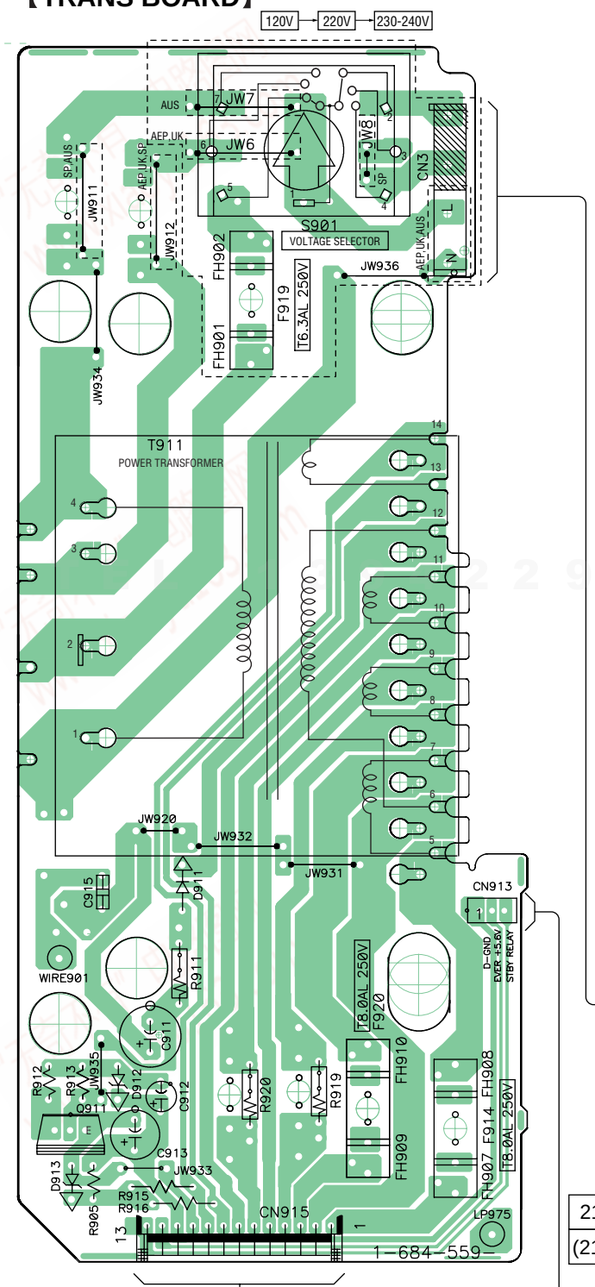
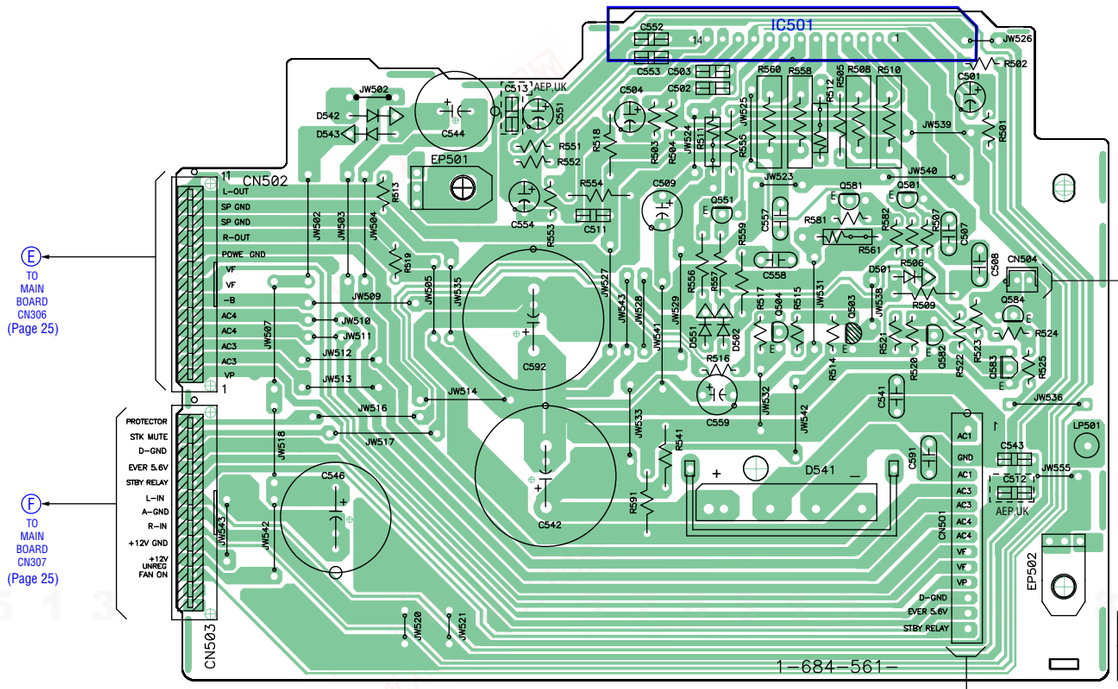
5-13. Printed Wiring Boards – POWER/TRANS Section – • See page 19 for Circuit Boards Location.

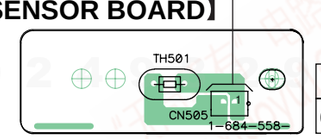
【TRANS BOARD】



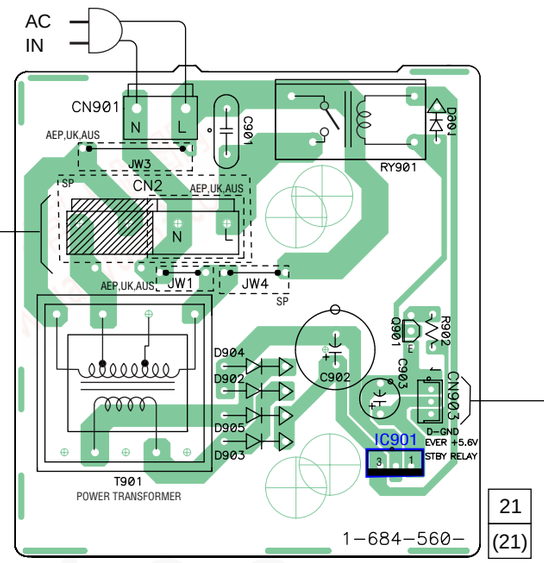
【POWER AMP BOARD】



【SENSOR BOARD】



【SUB TRANS BOARD】



• **Semiconductor Location**

Ref. No.	Location
D501	B-8
D502	C-7
D541	C-7
D542	B-5
D543	B-5
D551	C-7
D901	E-7
D902	F-7
D903	F-7
D904	F-7
D905	F-7
D911	E-2
D912	F-1
D913	F-1
IC501	A-7
IC901	F-7
Q501	B-8
Q503	B-7
Q504	B-7
Q551	B-7
Q581	B-7
Q582	C-8
Q583	C-8
Q584	B-8
Q901	F-7
Q911	F-1

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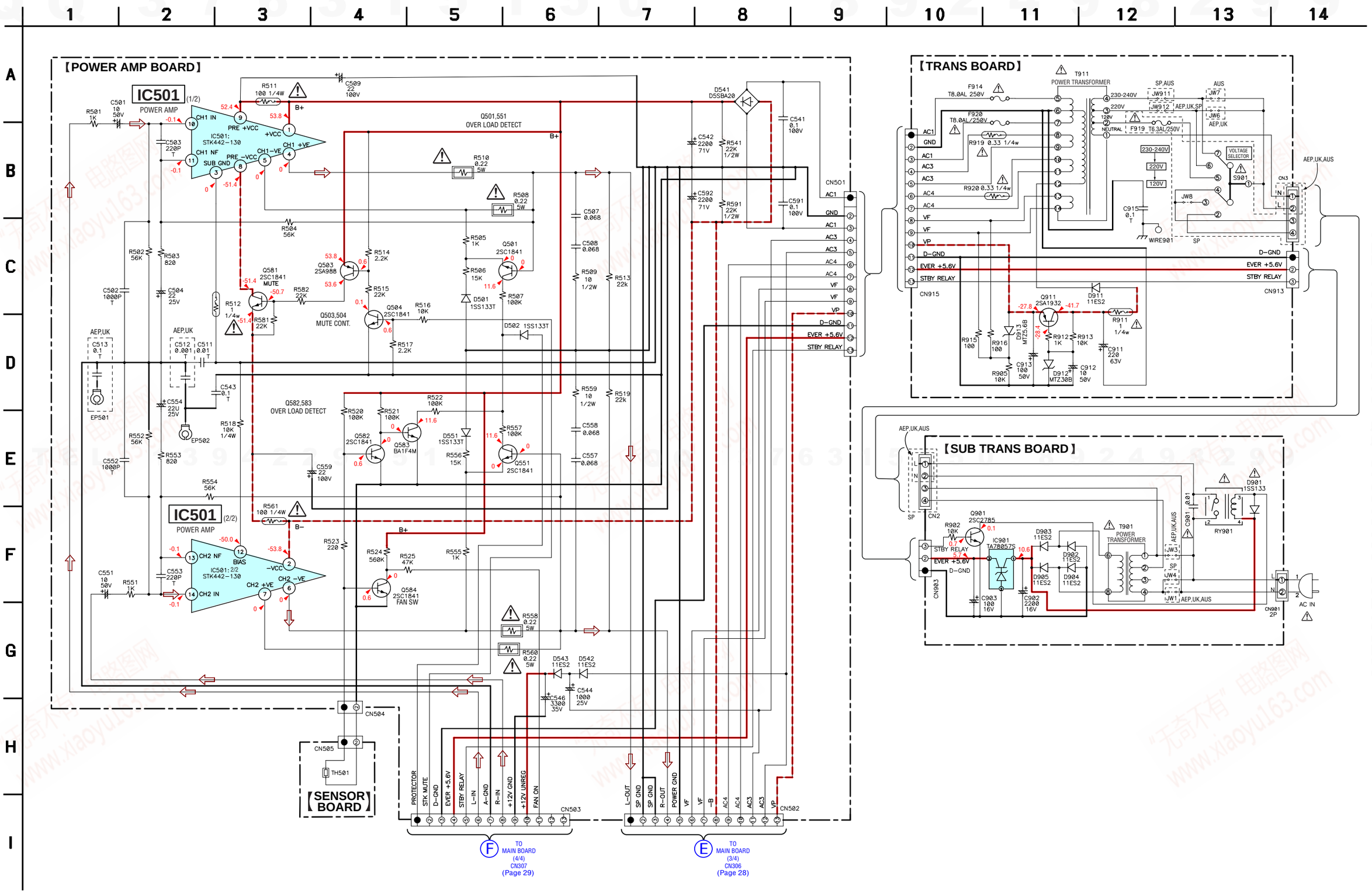
5-14. Schematic Diagram – POWER/TRANS Section –



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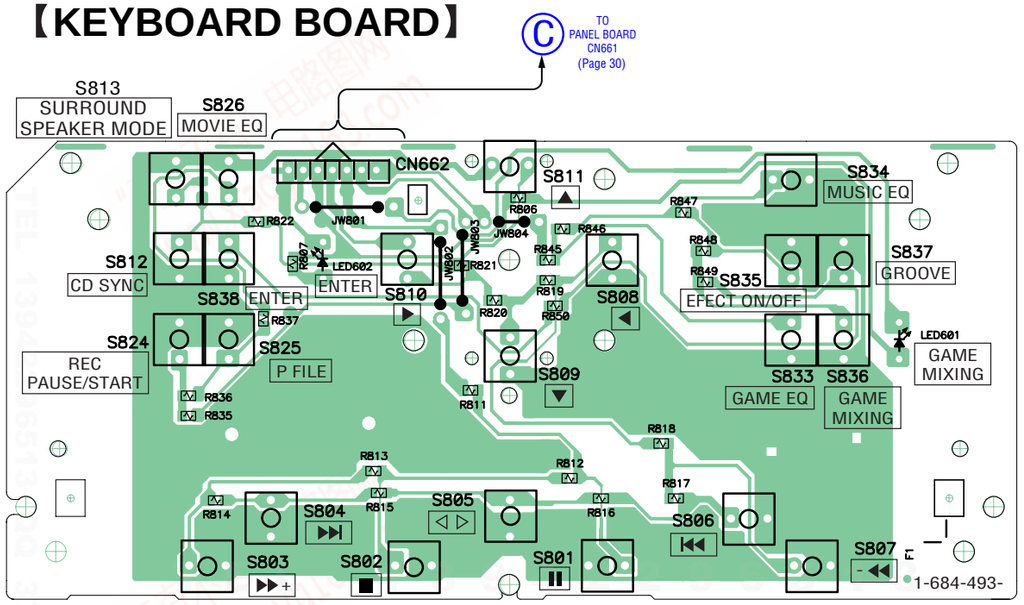
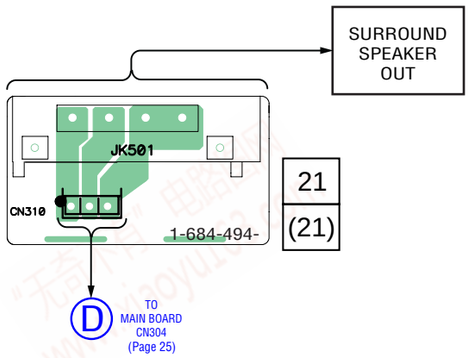
5-15. Printed Wiring Board – SURROUND/KEYBOARD Section –

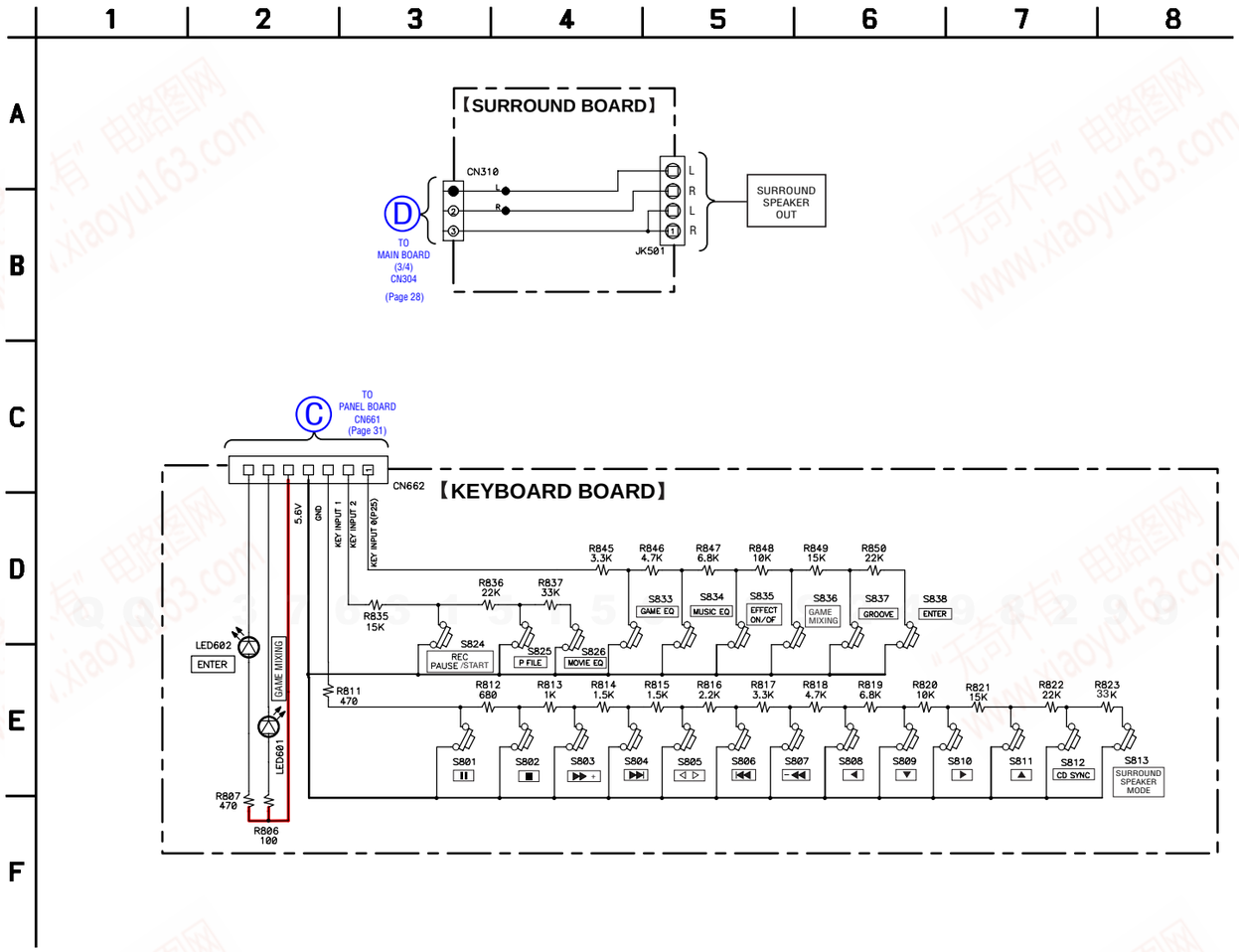
【KEYBOARD BOARD】



【SURROUND BOARD】



5-16. Schematic Diagram – SURROUND/KEYBOARD Section –



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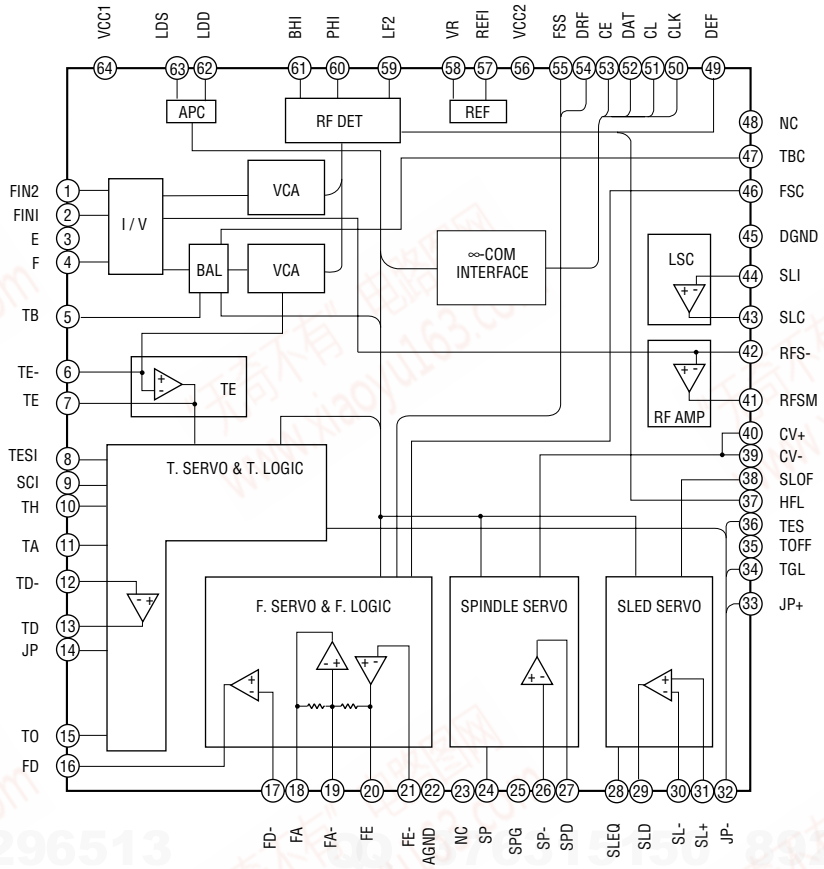
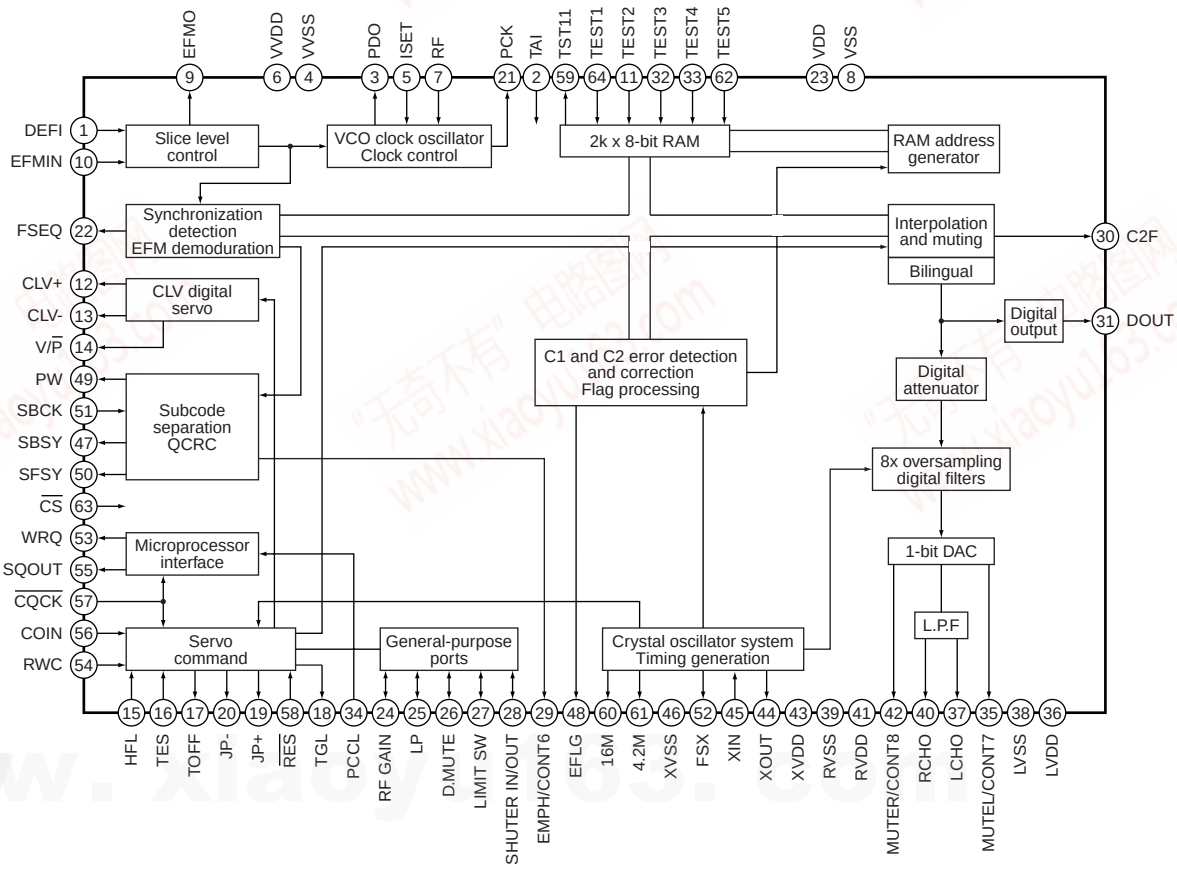
• **IC Block Diagrams**

IC731 LA9242M (BD BOARD)


VCC1 LDS LDD BHI PHI LF2 VR REFI VCC2 FSS DRF CE DAT CL CLK DEF
APC
RF DET
REF
NC TBC FSC DGND SLI SLC RFS- RFSM CV+ CV- SLOF HFL TES TOFF TGL JP+
FIN2 FINI E F TB TE- TE TESI SCI TH TA TD- TD JP TO FD
I / V
VCA
BAL
VCA
∞-COM INTERFACE
LSC
RF AMP
TE
T. SERVO & T. LOGIC
F. SERVO & F. LOGIC
SPINDLE SERVO
SLED SERVO
FD- FA FA- FE FE- AGND NC SP SPG SP- SPD SLEQ SLD SL- SL+ JP-

IC751 LC78622NE (BD BOARD)


EFMO VVDD VVSS PDO ISET RF PCK TAI TST11 TEST1 TEST2 TEST3 TEST4 TEST5 VDD VSS
DEFI EFMIN FSEQ CLV+ CLV- V/P PW SBCK SBSY SFSY CS WRQ SQOUT CQCK COIN RWC
Slice level control
VCO clock oscillator Clock control
2k x 8-bit RAM
RAM address generator
Synchronization detection EFM demoduration
Interpolation and muting
Bilingual
C2F
CLV digital servo
Digital output
DOUT
C1 and C2 error detection and correction Flag processing
Digital attenuator
Subcode separation QCRC
8x oversampling digital filters
Microprocessor interface
1-bit DAC
L.P.F
Servo command
General-purpose ports
Crystal oscillator system Timing generation
HFL TES TOFF JP- JP+ RES TGL PCCL RF GAIN LP D.MUTE LIMIT SW SHUTER IN/OUT EMPH/CONT6 EFLG 16M 4.2M XVSS FSX XIN XOUT XVDD RVSS RVDD MUTER/CONT8 RCHO LCHO MUTEL/CONT7 LVSS LVDD

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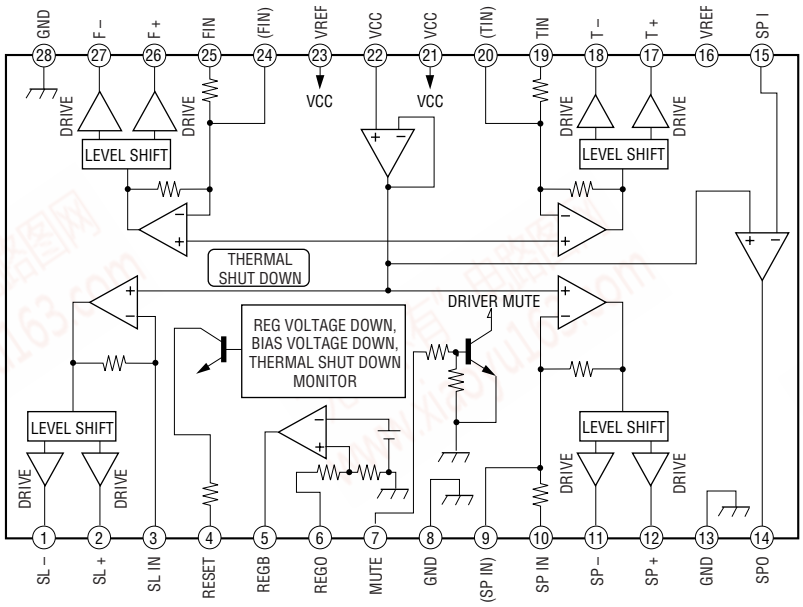
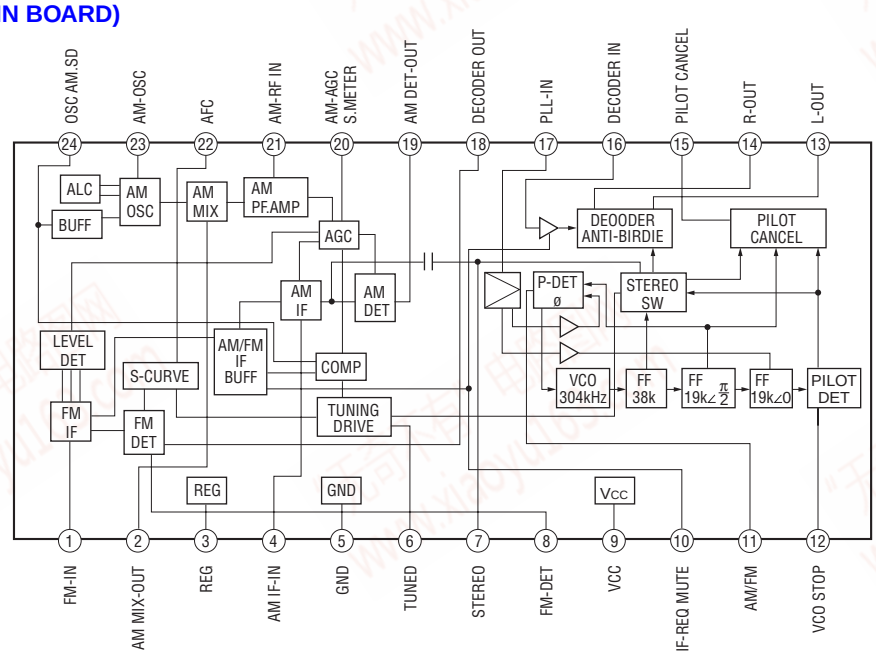
IC781 BA6898FP (BD BOARD)



IC101 LA1845 (MAIN BOARD)



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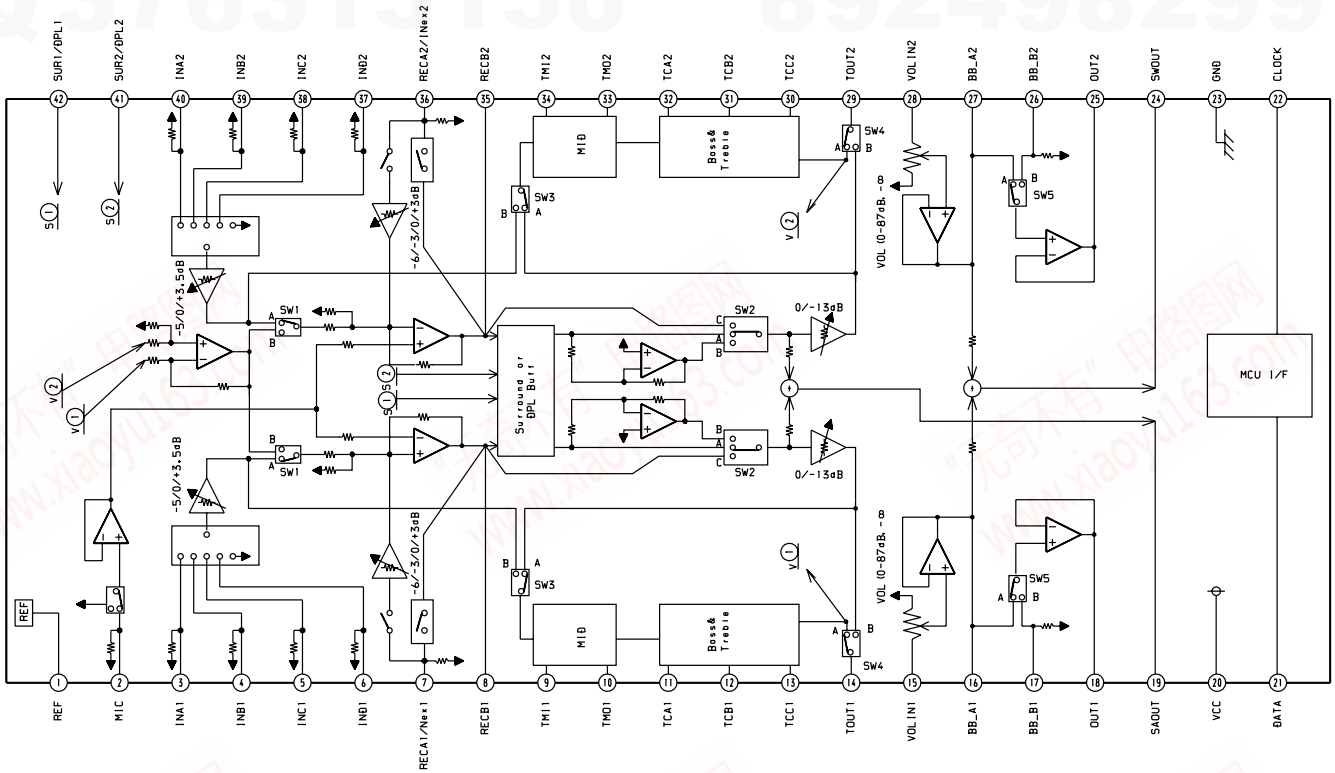
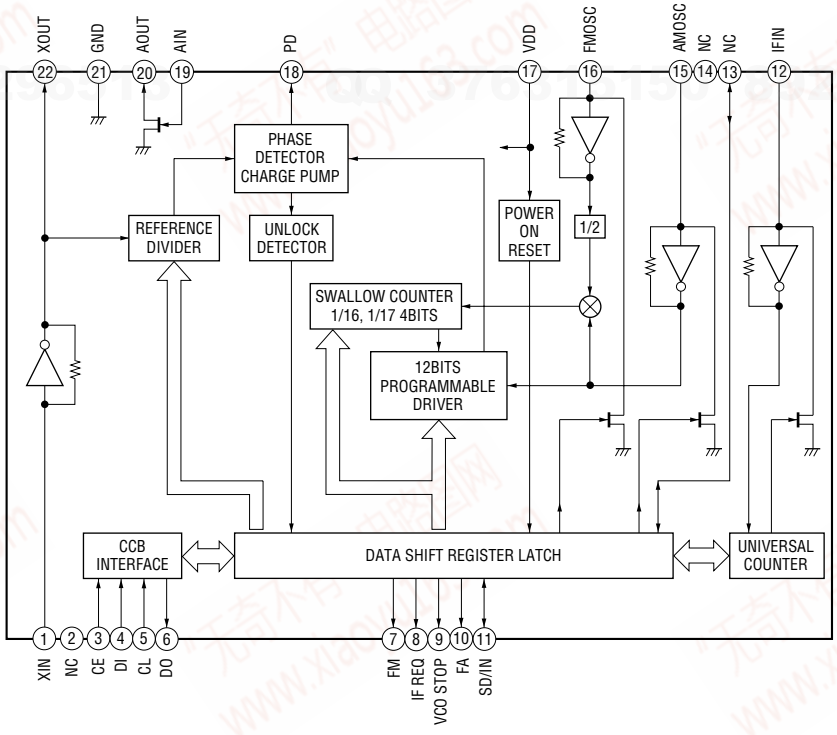
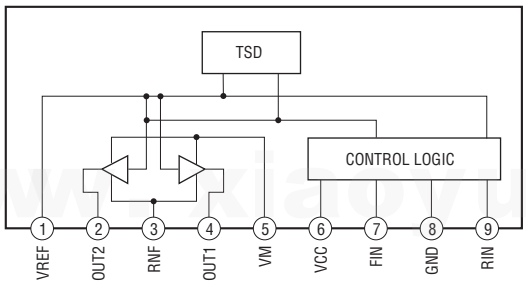
IC301 M61519FPD61G (MAIN BOARD)



IC102 LC72131D (MAIN BOARD)



IC701 BA6956AN (DRIVER BOARD)



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5-17. IC PIN FUNCTION DESCRIPTION

• IC801 LC876662B-5Z81 Master Control (PANEL Board)

Pin No.	Pin Name	I/O	Description
1	PWR LED	O	PWR LED control signal output
2	P.S.RELAY	O	Standby relay control signal output
3	SYS MUTE	O	System muting signal output
4	CD CLOSE	I	CD tray close switch signal input
5	CD RWC/F.CLOCK	O	Read/write control signal output
6	CD WRQ/F.DATA	I	Subcode Q standby signal input
7	FLASH R/W	—	Fixed at “H”
8	CD DRF	I	RF level detection signal input
9	AMS IN	I	AMS signal input
10	BU1924 DATA	I	Data input from the RDS decoder IC
11	RESET	I	Reset input
12	XT1	I	Connection for a crystal resonator
13	XT2	O	Connection for a crystal resonator
14	VSS	—	Ground
15	CF1	I	Connection for a ceramic resonator
16	CF2	O	Connection for a ceramic resonator
17	VDD1	—	Power sypply
18	TAPE A STAT	I	TAPE A switches signal input
19	TAPE B STAT	I	TAPE B switches signal input
20	VACS	O	VACS control signal output
21	SPEANA IN H	I	Spectrum analyzer signal input
22	SPEANA IN MH	I	Spectrum analyzer signal input
23	SPEANA IN M	I	Spectrum analyzer signal input
24	SPEANA IN L	I	Spectrum analyzer signal input
25	KEY INPUT 0	I	Function key input
26	KEY INPUT 1	I	Function key input
27	KEY INPUT 2	I	Function key input
28	PWR DOWN	I	Power down signal input
29	BU1924 CLK	I	Clock input from the RDS decoder IC
30 to 42	G13 to G01	O	FL tube grid signal ouput
43 to 45	P01 to P03	O	FL tube segment signal ouput
46	VDD	—	Power supply
47 to 50	P04 to P07	O	FL tube segment signal ouput
51	VPP	—	Power supply (negative)
52 to 64	P08 to P20	O	FL tube segment signal ouput
65 to 68	P21 OP. OUT 10(SW10) to P24 OP. OUT 07(SW07)	O	FL tube segment signal ouput or switch signal output
69 to 71	P25 OP. OUT05(SW06) to P27OP. OUT 03(SW04)	O	FL tube segment signal ouput or switch signal output
72	VDD	—	Power supply
73 to 75	P28 OP. OUT 02(SW03) to P30 OP. OUT 00(SW01)	O	FL tube segment signal ouput or switch signal output
76	OP. SW IN (MODE SW IN)	I	Switch signal input
77	PROTECTOR SENSOR	I	Power amplifier circuit protection signal input
78	HEADPHONE SENSOR	I	Headphone detection signal input
79	CD SENS	I	Table address sensor signal input

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Pin No.	Pin Name	I/O	Description
80	CD U/D SW	I	CD BU up/down switch signal input
81	STEREO	I	Stereo tuning signal input
82	TUNED	I	Tuning a frequency signal input
83	TAPE PHOTO SENSOR-A	I	A deck photo sensor singanl input
84	TAPE PHOTO SENSOR-B	I	B deck photo sensor singanl input
85	REMCON IN	I	Data input from the remote control receiver
86	VR ENCODER B	I	Volume signal input from the rotary encoder
87	VR ENCODER A	I	Volume signal input from the rotary encoder
88	CD OPEN	I	CD tray open switch signal input
89	VSS	—	Ground
90	VDD	—	Power supply
91	PT8300-A LATCH	O	Latch signal output to the I/O expander
92	PT8300-B LATCH	O	Latch signal output to the I/O expander Not used (open)
93	LC72131 CE	O	Chip enable signal output to the PLL tuner IC
94	M61519 CLOCK	O	Clock output to the sound processor
95	LC72131,PT8300-AB, M61519 DATA	O	Data output to the PLL tuner IC, the I/O expander and the sound processor
96	LC72131 DATA IN	I	Data input from the the PLL tuner IC
97	LC72131,PT8300 CLK	O	Clock output to the PLL tuner IC and the I/O expander
98	COIN	O	CD command data signal output
99	SQOUT	I	CD subcode Q signal input
100	SQCK	O	CD command clock signal output

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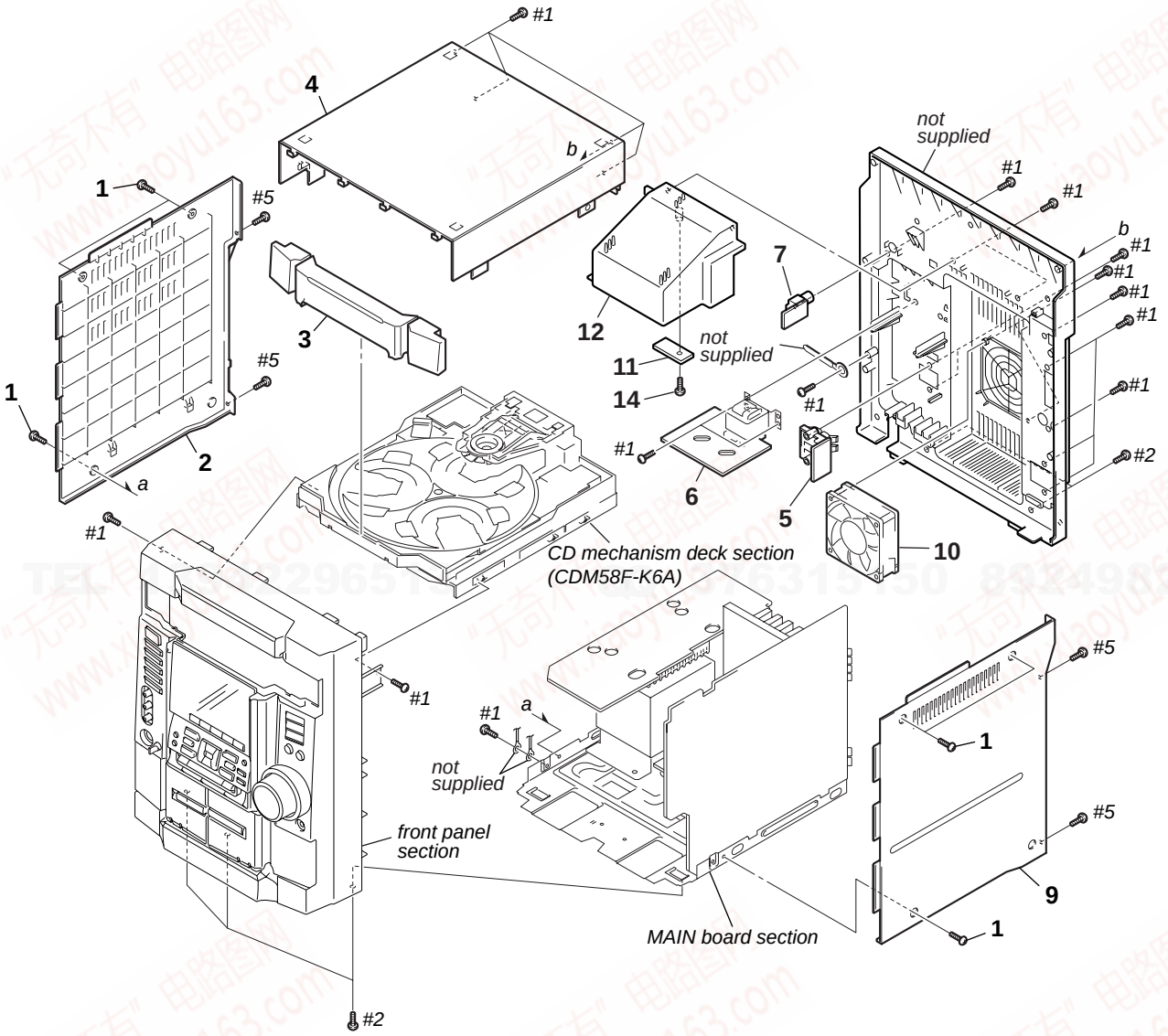
SECTION 6
EXPLODED VIEWS

NOTE:
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
  AUS : Australian model.
  SP : Singapore model.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

6-1. Main Section



Ref. No.	Part No.	Description	Remarks
1	3-363-099-41	SCREW (CASE 3 TP2)	
2	4-224-549-21	CASE (SIDE-L)	
3	4-238-616-11	CD (DOOR)	
4	4-224-550-41	CASE (TOP) (AEP, UK)	
4	4-224-550-81	CASE (TOP) (AUS, SP)	
5	1-684-494-11	SURROUND BOARD	
6	1-684-560-21	SUB TRANS BOARD	
7	1-684-556-11	VIDEO OUT BOARD	
9	4-224-548-61	CASE (SIDE-R)	
10	1-763-072-11	FAN, DC (AEP,UK)	
10	1-763-738-21	FAN, DC (AUS,SP)	
11	1-684-558-11	SENSOR BOARD	
12	4-227-984-01	COVER (DUCT)	
14	4-218-254-21	SCREW (M2.6), +PTPWH	
#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
#2	7-685-871-01	SCREW +BVTT 3X6 (S)	
#5	7-685-872-09	SCREW +BVTT 3X8 (S)	

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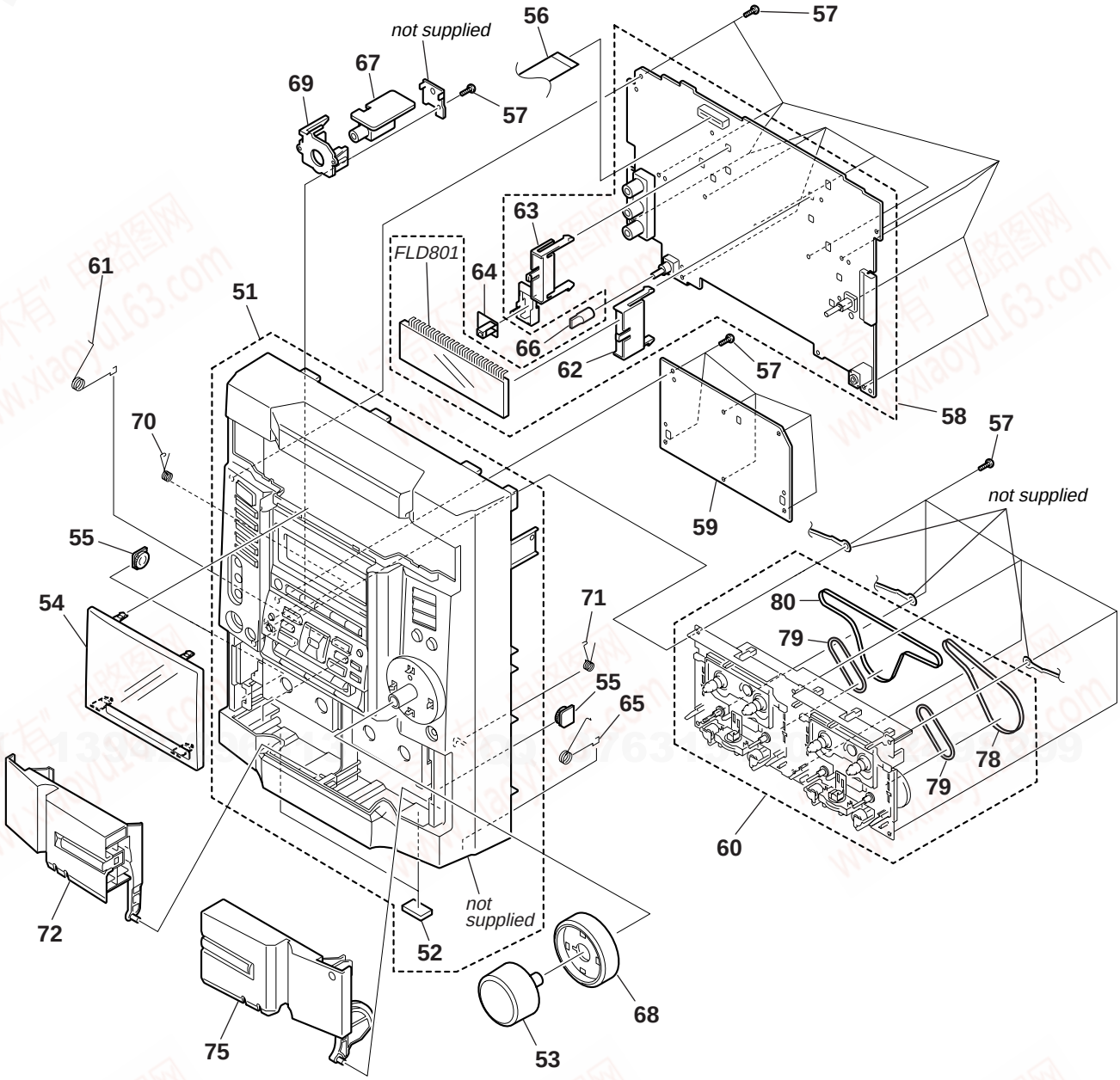
6-2. Front Panel Section



Ref. No.	Part No.	Description	Remarks
51	X-4954-709-1	PANEL ASSY, FRONT (AUS, SP)	
51	X-4954-994-1	PANEL ASSY, FRONT (AEP, UK)	
52	4-233-980-01	RUBBER FOOT	
53	4-234-019-21	VOLUME KNOB	
54	4-238-638-21	DISPLAY WINDOW	
55	4-224-104-41	DAMPER	
56	1-773-119-11	WIRE (FLAT TYPE) (19 CORE)	
57	4-218-254-21	SCREW (M2.6), +PTPWH	
58	A-4676-518-A	PANEL BOARD, COMPLETE (SP)	
58	A-4729-314-A	PANEL BOARD, COMPLETE (AUS)	
58	A-4729-638-A	PANEL BOARD, COMPLETE (AEP, UK)	
59	1-684-493-11	KEYBOARD BOARD	
60	1-796-362-11	DECK, MECH (CWL43RR-51)	
61	4-239-346-01	CASS DOOR SPRING (L)	
62	4-238-648-01	FL HOLDER R	

Ref. No.	Part No.	Description	Remarks
63	4-238-647-01	FL HOLDER L	
64	1-684-555-21	REM BOARD	
65	4-239-347-01	CASS DOOR SPRING (R)	
66	4-238-628-01	MIC KNOB (AUS, SP)	
67	1-684-557-11	MIC BOARD (AUS, SP)	
68	4-234-015-01	VOL KNOB RING	
69	4-238-629-01	HOLDER (MIC) (AUS, SP)	
70	4-231-836-01	SPRING (HEART CAM-A)	
71	4-231-841-01	SPRING (HEART CAM-B)	
72	X-4954-671-1	DOOR (A) ASSY, CASSETE	
75	X-4954-672-1	DOOR(B) ASSY, CASSETE	
78			
79			
80			
FLD801	1-518-793-11	INDICATOR TUBE, FLUORESCENT	

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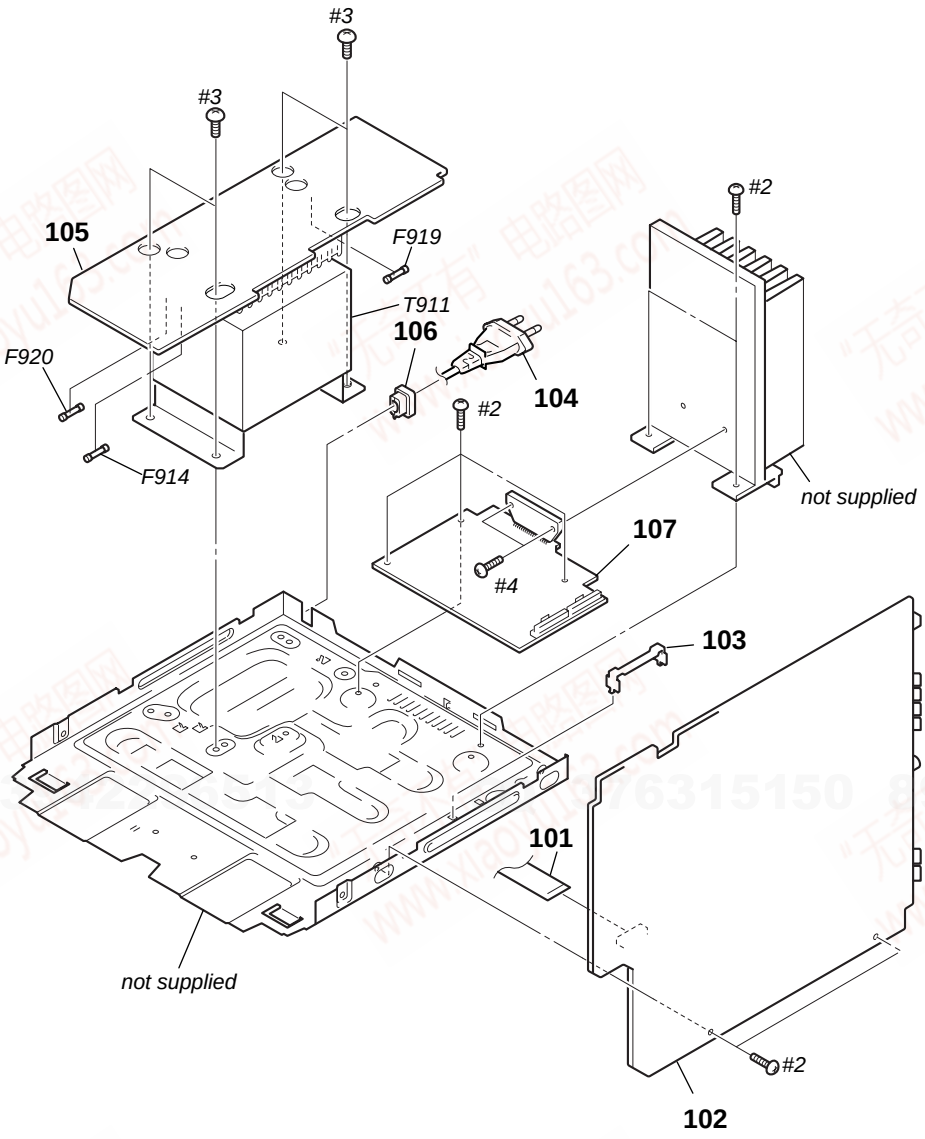
6-3. MAIN Board Section



Ref. No.	Part No.	Description	Remarks
101	1-751-688-11	WIRE (FLAT TYPE) (13 CORE)	
102	A-4676-530-A	MAIN BOARD, COMPLETE (AUS, SP)	
102	A-4729-630-A	MAIN BOARD, COMPLETE (AEP, UK)	
103	4-988-533-01	HOLDER, PWB	
⚠104	1-690-608-11	CORD, POWER (AUS)	
⚠104	1-777-071-82	CORD, POWER (AEP, SP)	
⚠104	1-790-226-12	CORD, POWER (UK)	
105	1-684-559-21	TRANS BOARD	
* 106	3-703-244-00	BUSHING (2104), CORD	
107	A-4676-523-A	POWER BOARD, COMPLETE (AUS, SP)	
107	A-4729-636-A	POWER BOARD, COMPLETE (AEP, UK)	
⚠F914	1-533-949-31	FUSE, CYLINDRICAL (T8AL/250V) (TIME LUG)	
⚠F919	1-533-473-11	FUSE, GLASS TUBE (DIA. 5) (T6.3AL/250V) (SP)	
⚠F920	1-533-949-31	FUSE, CYLINDRICAL (T8AL/250V) (TIME LUG)	
⚠T911	1-437-700-11	TRANSFORMER, POWER (AUS, SP)	
⚠T911	1-437-834-11	TRANSFORMER, POWER (AEP, UK)	
#2	7-685-871-01	SCREW +BVTT 3X6 (S)	
#3	7-685-880-09	SCREW +BVTT 4X6 (S)	
#4	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

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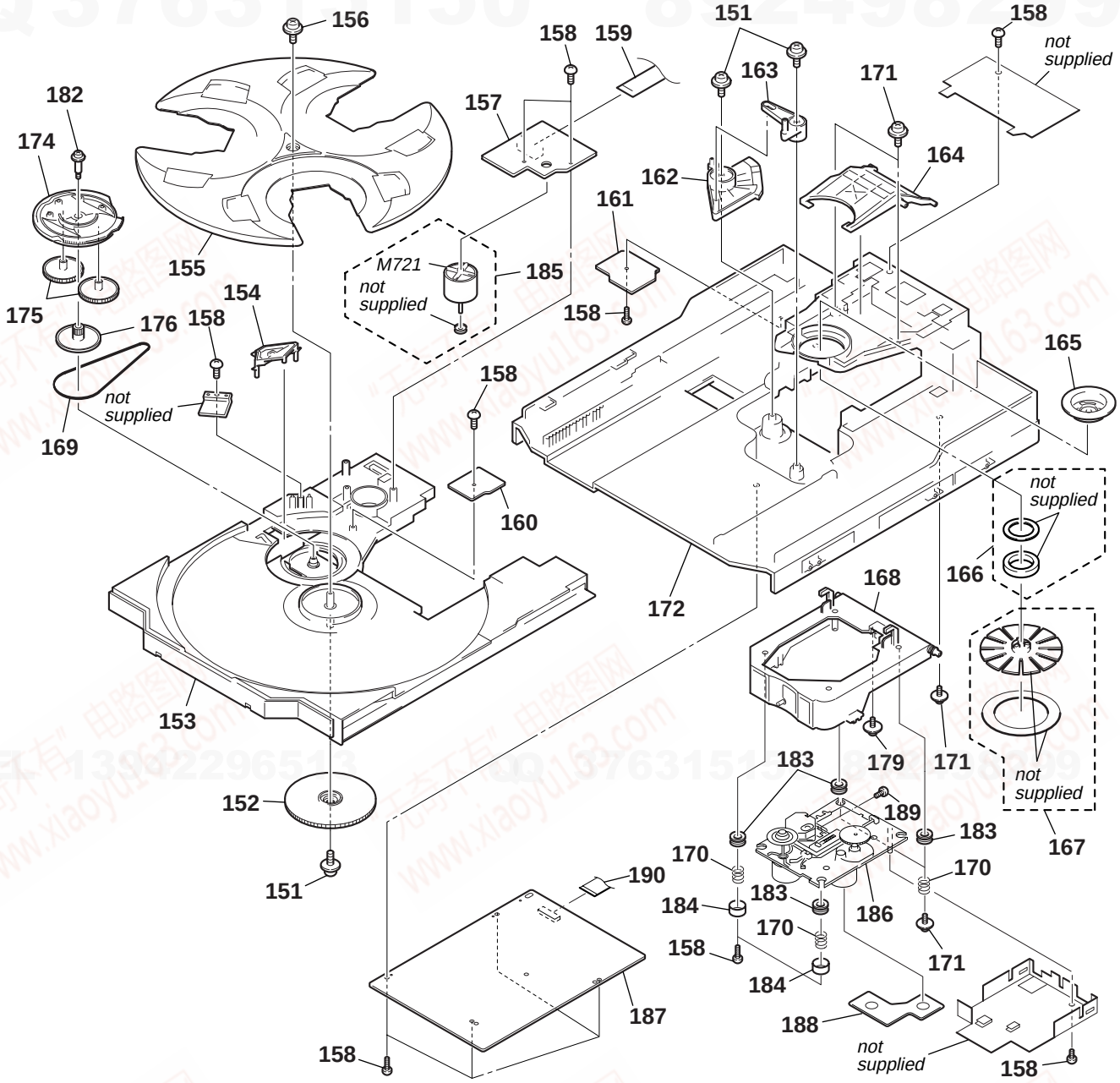
6-4. CD Mechanism Deck Section (CDM58F-K6A)



Ref. No.	Part No.	Description	Remarks
151	4-218-254-21	SCREW (M2.6), +PTPWH	
152	4-221-679-01	CAM (RELAY)	
153	4-231-452-03	TABLE (NEW)	
154	4-221-686-01	LEVER (CHANGE)	
155	4-221-676-01	TRAY	
156	4-933-134-51	SCREW (+PTPWH 2.6X8)	
157	1-675-910-14	MOTOR BOARD	
158	4-218-253-01	SCREW (M2.6), +BTTP	
159	1-791-983-12	WIRE (FLAT TYPE) (8 CORE)	
160	1-675-911-14	ADDRESS SENSOR BOARD	
161	1-675-912-14	DRIVER BOARD	
162	X-4952-608-1	CAM (U/D) ASSY	
163	4-221-681-01	LEVER (EX)	
164	4-221-682-01	LEVER (LIFTER)	
165	4-221-688-01	PULLEY (B), CHUCKING	
166	1-471-035-11	MAGNET ASSY	
167	X-4952-019-1	PULLEY (A) ASSY, CHUCKING	
168	X-4951-889-1	HOLDER (BU) ASSY	
169	4-222-095-01	BELT	
170	4-227-045-11	SPRING (INSULATOR), COIL	

Ref. No.	Part No.	Description	Remarks
171	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
172	4-223-777-11	CHASSIS	
174	4-221-678-01	CAM (CONTROL)	
175	4-221-683-01	GEAR (U)	
176	4-221-685-01	PULLEY (S)	
179	4-227-899-01	SCREW (DIA. 12), FROATING	
182	4-222-097-01	SCREW, STEP	
183	4-227-549-11	INSULATOR	
184	4-231-151-01	STOPPER (BU)	
185	A-4672-826-A	MOTOR ASSY	
⚠186	8-820-020-02	OPTICAL PICK-UP KSM-213DCP/Z-NP	
187	A-4676-413-A	BD BOARD, COMPLETE	
188	1-684-495-11	SPDL MOTOR BOARD	
189	4-951-620-01	SCREW (2.6X8), +BVTP	
190	1-823-859-11	WIRE (FLAT TYPE) (16 CORE)	
M721	1-763-790-11	MOTOR, DC (TURN)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

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ADDRESS SENSOR BD

SECTION 7 ELECTRICAL PARTS LIST

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
  uF: µF
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA...: µA... , uPA... , µPA... ,
  uPB... , µPB... , uPC... , µPC... ,
  uPD..., µPD...
- COILS
  uH: µH
- Abbreviation
  AUS : Australian model.
  SP : Singapore model.

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description			Remarks
	1-675-911-14	ADDRESS SENSOR BOARD			
		**********			
		< CAPACITOR >			
C712	1-164-159-21	CERAMIC	0.1uF		50V
		< PHOTO INTERRUPTER >			
IC711	8-749-014-38	PHOTO INTERRUPTER SG-264			
		< RESISTOR >			
R711	1-247-876-11	CARBON	75K	5%	1/4W
R712	1-249-409-11	CARBON	220	5%	1/4W F
R713	1-249-429-11	CARBON	10K	5%	1/4W
		< SWITCH >			
S711	1-771-821-11	SWITCH, PUSH (1 KEY) (UP/DOWN)			
**********					
	A-4676-413-A	BD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C704	1-164-159-21	CERAMIC	0.1uF		50V
C705	1-126-947-11	ELECT	47uF	20.00%	10V
C706	1-164-159-21	CERAMIC	0.1uF		50V
C707	1-126-964-11	ELECT	10uF	20.00%	50V
C708	1-161-494-00	CERAMIC	0.022uF		25V
C709	1-104-665-11	ELECT	100uF	20.00%	10V
C710	1-104-665-11	ELECT	100uF	20.00%	10V
C711	1-162-306-11	CERAMIC	0.01uF	20.00%	16V
C712	1-126-960-11	ELECT	1uF	20.00%	50V
C713	1-136-171-00	FILM	0.33uF	5.00%	50V
C714	1-126-947-11	ELECT	47uF	20.00%	10V
C715	1-162-294-31	CERAMIC	0.001uF	10%	50V
C717	1-126-964-11	ELECT	10uF	20.00%	50V
C719	1-161-494-00	CERAMIC	0.022uF		25V
C720	1-162-282-31	CERAMIC	100PF	10%	50V
C721	1-162-282-31	CERAMIC	100PF	10%	50V
C722	1-162-282-31	CERAMIC	100PF	10%	50V
C723	1-136-169-00	FILM	0.22uF	5.00%	50V
C724	1-130-489-00	MYLAR	0.033uF	5%	50V
C725	1-162-288-31	CERAMIC	330PF	10%	50V
C726	1-136-171-00	FILM	0.33uF	5.00%	50V
C727	1-136-167-00	FILM	0.15uF	5.00%	50V
C728	1-127-869-21	CERAMIC	2700PF	10%	50V
C730	1-130-485-00	MYLAR	0.015uF	5%	50V
C731	1-130-486-00	MYLAR	0.018uF	10%	50V
C732	1-130-493-00	MYLAR	0.068uF	5%	50V
C734	1-164-159-21	CERAMIC	0.1uF		50V
C735	1-162-286-21	CERAMIC	220PF	10.00%	50V
C736	1-136-171-00	FILM	0.33uF	5.00%	50V
C737	1-162-306-11	CERAMIC	0.01uF	20.00%	16V
C738	1-162-292-31	CERAMIC	680PF	10%	50V
C739	1-162-600-11	CERAMIC	0.0047uF	10.00%	16V
C740	1-162-286-21	CERAMIC	220PF	10.00%	50V
C741	1-126-959-11	ELECT	0.47uF	20.00%	50V
C742	1-126-947-11	ELECT	47uF	20.00%	10V
C743	1-126-960-11	ELECT	1uF	20.00%	50V
C744	1-127-870-21	CERAMIC	3300PF	10%	50V
C745	1-162-191-31	CERAMIC	2.2PF	10.00%	50V
C746	1-162-306-11	CERAMIC	0.01uF	20.00%	16V
C747	1-164-159-21	CERAMIC	0.1uF		50V
C748	1-162-294-31	CERAMIC	0.001uF	10%	50V
C749	1-162-203-31	CERAMIC	15PF	5.00%	50V
C750	1-126-963-11	ELECT	4.7uF	20.00%	50V
C751	1-164-159-21	CERAMIC	0.1uF		50V
C752	1-164-159-21	CERAMIC	0.1uF		50V
C753	1-164-159-21	CERAMIC	0.1uF		50V
C754	1-162-286-21	CERAMIC	220PF	10.00%	50V
C755	1-161-494-00	CERAMIC	0.022uF		25V
C756	1-126-947-11	ELECT	47uF	20.00%	10V
C757	1-161-494-00	CERAMIC	0.022uF		25V
C758	1-126-947-11	ELECT	47uF	20.00%	10V
C759	1-164-159-21	CERAMIC	0.1uF		50V
C760	1-162-284-31	CERAMIC	150PF	10.00%	50V
C761	1-162-206-31	CERAMIC	20PF	5%	50V
C762	1-162-206-31	CERAMIC	20PF	5%	50V
C763	1-126-947-11	ELECT	47uF	20.00%	10V
C764	1-161-494-00	CERAMIC	0.022uF		25V
C767	1-162-282-31	CERAMIC	100PF	10%	50V
C768	1-162-282-31	CERAMIC	100PF	10%	50V
C769	1-162-282-31	CERAMIC	100PF	10%	50V
C770	1-162-282-31	CERAMIC	100PF	10%	50V
C771	1-126-964-11	ELECT	10uF	20.00%	50V
C772	1-126-964-11	ELECT	10uF	20.00%	50V
C773	1-127-866-21	CERAMIC	1500PF	10%	50V
C774	1-127-866-21	CERAMIC	1500PF	10%	50V
C775	1-162-282-31	CERAMIC	100PF	10%	50V
C776	1-162-282-31	CERAMIC	100PF	10%	50V
C777	1-126-947-11	ELECT	47uF	20.00%	10V
C781	1-126-926-11	ELECT	1000uF	20.00%	10V
C782	1-164-159-21	CERAMIC	0.1uF		50V
C783	1-126-964-11	ELECT	10uF	20.00%	50V
C786	1-161-494-00	CERAMIC	0.022uF		25V

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Ref. No.	Part No.	Description			Remarks
C787	1-104-665-11	ELECT	100uF	20.00%	10V
C788	1-162-290-31	CERAMIC	470PF	10%	50V
C789	1-164-159-21	CERAMIC	0.1uF		50V
C790	1-164-159-21	CERAMIC	0.1uF		50V
C791	1-164-159-21	CERAMIC	0.1uF		50V
C792	1-164-159-21	CERAMIC	0.1uF		50V
		< CONNECTOR >			
CN731	1-779-553-11	CONNECTOR,FFC (LIF(NON-ZIF))16P			
CN733	1-784-780-11	CONNECTOR, FFC 19P			
* CN734	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P			
* CN735	1-564-712-11	PIN, CONNECTOR (SMALL TYPE)10P			
		< DIODE >			
D731	8-719-991-33	DIODE 1SS133T-77			
D732	8-719-991-33	DIODE 1SS133T-77			
		< FERRITE BEAD >			
EB751	1-410-397-21	FERRITE BEAD INDUCTOR			
		< IC >			
IC731	6-702-016-01	IC LA9242M			
IC751	6-700-355-01	IC LC78622NE			
IC781	8-759-473-42	IC BA6898FP			
		< COIL >			
L701	1-410-509-11	INDUCTOR	10uH		
L702	1-410-509-11	INDUCTOR	10uH		
L703	1-410-521-11	INDUCTOR	100uH		
L704	1-410-509-11	INDUCTOR	10uH		
L705	1-410-521-11	INDUCTOR	100uH		
		< TRANSISTOR >			
Q731	8-729-116-57	TRANSISTOR	2SB1068TP-K		
Q771	8-729-119-78	TRANSISTOR	2SC2785TP-HFE		
Q772	8-729-119-78	TRANSISTOR	2SC2785TP-HFE		
Q774	8-729-119-76	TRANSISTOR	2SA1175TP-HFE		
Q775	8-729-119-78	TRANSISTOR	2SC2785TP-HFE		
		< RESISTOR >			
R703	1-247-807-31	CARBON	100	5%	1/4W
R704	1-249-393-11	CARBON	10	5%	1/4W F
R705	1-247-807-31	CARBON	100	5%	1/4W
R706	1-247-807-31	CARBON	100	5%	1/4W
R707	1-247-807-31	CARBON	100	5%	1/4W
R708	1-249-441-11	CARBON	100K	5%	1/4W
R709	1-249-427-11	CARBON	6.8K	5%	1/4W F
R710	1-249-421-11	CARBON	2.2K	5%	1/4W F
R715	1-249-430-11	CARBON	12K	5%	1/4W
R716	1-249-439-11	CARBON	68K	5%	1/4W
R717	1-249-439-11	CARBON	68K	5%	1/4W
R718	1-249-436-11	CARBON	39K	5%	1/4W
R719	1-247-843-11	CARBON	3.3K	5%	1/4W
R720	1-249-434-11	CARBON	27K	5%	1/4W
R721	1-249-414-11	CARBON	560	5%	1/4W F
R722	1-249-431-11	CARBON	15K	5%	1/4W
R724	1-249-433-11	CARBON	22K	5%	1/4W

Ref. No.	Part No.	Description			Remarks
R725	1-249-430-11	CARBON	12K	5%	1/4W
R727	1-249-430-11	CARBON	12K	5%	1/4W
R728	1-249-435-11	CARBON	33K	5%	1/4W
R729	1-249-419-11	CARBON	1.5K	5%	1/4W F
R731	1-249-434-11	CARBON	27K	5%	1/4W
R732	1-247-885-00	CARBON	180K	5%	1/4W
R733	1-249-431-11	CARBON	15K	5%	1/4W
R734	1-249-434-11	CARBON	27K	5%	1/4W
R735	1-249-435-11	CARBON	33K	5%	1/4W
R736	1-249-419-11	CARBON	1.5K	5%	1/4W F
R737	1-249-424-11	CARBON	3.9K	5%	1/4W F
R738	1-247-807-31	CARBON	100	5%	1/4W
R739	1-249-419-11	CARBON	1.5K	5%	1/4W F
R740	1-249-427-11	CARBON	6.8K	5%	1/4W F
R741	1-249-424-11	CARBON	3.9K	5%	1/4W F
R742	1-247-897-11	CARBON	560K	5%	1/4W
R743	1-247-897-11	CARBON	560K	5%	1/4W
R744	1-249-428-11	CARBON	8.2K	5%	1/4W F
R745	1-249-431-11	CARBON	15K	5%	1/4W
R746	1-249-411-11	CARBON	330	5%	1/4W
R747	1-249-433-11	CARBON	22K	5%	1/4W
R748	1-249-437-11	CARBON	47K	5%	1/4W
R749	1-249-415-11	CARBON	680	5%	1/4W F
R750	1-249-425-11	CARBON	4.7K	5%	1/4W F
R751	1-249-415-11	CARBON	680	5%	1/4W F
R752	1-249-434-11	CARBON	27K	5%	1/4W
R753	1-249-418-11	CARBON	1.2K	5%	1/4W F
R754	1-249-435-11	CARBON	33K	5%	1/4W
R755	1-249-442-11	CARBON	510	5%	1/4W
R756	1-247-903-00	CARBON	1M	5%	1/4W
R757	1-249-437-11	CARBON	47K	5%	1/4W
R758	1-249-417-11	CARBON	1K	5%	1/4W F
R759	1-249-417-11	CARBON	1K	5%	1/4W F
R760	1-247-807-31	CARBON	100	5%	1/4W
R761	1-249-417-11	CARBON	1K	5%	1/4W F
R762	1-249-417-11	CARBON	1K	5%	1/4W F
R763	1-249-417-11	CARBON	1K	5%	1/4W F
R764	1-249-417-11	CARBON	1K	5%	1/4W F
R765	1-249-417-11	CARBON	1K	5%	1/4W F
R766	1-247-807-31	CARBON	100	5%	1/4W
R771	1-249-421-11	CARBON	2.2K	5%	1/4W F
R772	1-249-421-11	CARBON	2.2K	5%	1/4W F
R775	1-249-429-11	CARBON	10K	5%	1/4W
R776	1-249-429-11	CARBON	10K	5%	1/4W
R777	1-249-421-11	CARBON	2.2K	5%	1/4W F
R778	1-249-421-11	CARBON	2.2K	5%	1/4W F
R779	1-249-409-11	CARBON	220	5%	1/4W F
R780	1-249-425-11	CARBON	4.7K	5%	1/4W F
R781	1-249-434-11	CARBON	27K	5%	1/4W
R782	1-249-429-11	CARBON	10K	5%	1/4W
R783	1-249-425-11	CARBON	4.7K	5%	1/4W F
R784	1-247-807-31	CARBON	100	5%	1/4W
R785	1-247-889-00	CARBON	270K	5%	1/4W
R786	1-249-429-11	CARBON	10K	5%	1/4W
R787	1-249-429-11	CARBON	10K	5%	1/4W
R788	1-249-417-11	CARBON	1K	5%	1/4W F
R789	1-247-889-00	CARBON	270K	5%	1/4W
R792	1-249-421-11	CARBON	2.2K	5%	1/4W F

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Ref. No.	Part No.	Description			Remarks
R793	1-247-807-31	CARBON	100	5%	1/4W
R794	1-249-437-11	CARBON	47K	5%	1/4W
R795	1-249-437-11	CARBON	47K	5%	1/4W
R796	1-249-437-11	CARBON	47K	5%	1/4W
R797	1-249-437-11	CARBON	47K	5%	1/4W
R798	1-249-441-11	CARBON	100K	5%	1/4W
R799	1-249-441-11	CARBON	100K	5%	1/4W
		< TEST PIN >			
* TP731	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P			
		< VIBRATOR >			
X701	1-579-280-11	VIBRATOR, CRYSTAL (16.9344MHz)			
**********					
	1-675-912-14	DRIVER BOARD			
		**********			
		< CAPACITOR >			
C702	1-126-964-51	ELECT	10uF	20.00%	50V
		< CONNECTOR >			
CN701	1-785-336-11	PIN, CONNECTOR(LIGHT ANGLE)10P			
CN702	1-785-550-11	CONNECTOR, FFC/FPC 8P			
		< DIODE >			
D701	8-719-983-15	DIODE MTZJ-T-77-3.9A			
		< IC >			
IC701	8-759-598-69	IC BA6956AN			
		< RESISTOR >			
R701	1-249-411-11	CARBON	330	5%	1/4W
R702	1-249-401-11	CARBON	47	5%	1/4W F
**********					
	1-684-493-11	KEYBOARD BOARD			
		**********			
		< DIODE >			
LED601	8-719-058-03	DIODE SEL5423E-TP15 (GAME MIXING)			
LED602	8-719-058-04	DIODE SEL5223S-TP15 (CD OPTICAL DIGTAL OUT)			
		< RESISTOR >			
R806	1-216-809-11	METAL CHIP	100	5%	1/16W
R807	1-216-817-11	METAL CHIP	470	5%	1/16W
R811	1-216-817-11	METAL CHIP	470	5%	1/16W
R812	1-216-819-11	METAL CHIP	680	5%	1/16W
R813	1-216-821-11	METAL CHIP	1K	5%	1/16W
R814	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R815	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R816	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R817	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R818	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R819	1-218-867-11	RES-CHIP	6.8K	5%	1/10W
R820	1-216-833-11	METAL CHIP	10K	5%	1/16W

Ref. No.	Part No.	Description			Remarks
R821	1-216-835-11	METAL CHIP	15K	5%	1/16W
R822	1-216-837-11	METAL CHIP	22K	5%	1/16W
R823	1-216-839-11	METAL CHIP	33K	5%	1/16W
R835	1-216-835-11	METAL CHIP	15K	5%	1/16W
R836	1-216-837-11	METAL CHIP	22K	5%	1/16W
R837	1-216-839-11	METAL CHIP	33K	5%	1/16W
R845	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R846	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R847	1-218-867-11	RES-CHIP	6.8K	5%	1/10W
R848	1-216-833-11	METAL CHIP	10K	5%	1/16W
R849	1-216-835-11	METAL CHIP	15K	5%	1/16W
R850	1-216-837-11	METAL CHIP	22K	5%	1/16W
		< SWITCH >			
S801	1-762-875-21	SWITCH, KEYBOARD(▮▮)			
S802	1-762-875-21	SWITCH, KEYBOARD(■)			
S803	1-762-875-21	SWITCH, KEYBOARD(▶▶+)			
S804	1-762-875-21	SWITCH, KEYBOARD(▶▶▮)			
S805	1-762-875-21	SWITCH, KEYBOARD(◁▷)			
S806	1-762-875-21	SWITCH, KEYBOARD(▮◀◀)			
S807	1-762-875-21	SWITCH, KEYBOARD(–◀◀)			
S808	1-762-875-21	SWITCH, KEYBOARD(◀)			
S809	1-762-875-21	SWITCH, KEYBOARD(▼)			
S810	1-762-875-21	SWITCH, KEYBOARD(▶)			
S811	1-762-875-21	SWITCH, KEYBOARD(▲)			
S812	1-762-875-21	SWITCH, KEYBOARD(CD SYNC)			
S813	1-762-875-21	SWITCH, KEYBOARD(SURROUND SPEAKER MODE)			
S824	1-762-875-21	SWITCH, KEYBOARD(REC PAUSE/STRAT)			
S825	1-762-875-21	SWITCH, KEYBOARD(P FILE)			
S826	1-762-875-21	SWITCH, KEYBOARD(MOVIE EQ)			
S833	1-762-875-21	SWITCH, KEYBOARD(GAME EQ)			
S834	1-762-875-21	SWITCH, KEYBOARD(MUSIC EQ)			
S835	1-762-875-21	SWITCH, KEYBOARD(EFFECT ON/OFF)			
S836	1-762-875-21	SWITCH, KEYBOARD(GAME MIXING)			
S837	1-762-875-21	SWITCH, KEYBOARD(GROOVE)			
S838	1-762-875-21	SWITCH, KEYBOARD(ENTER)			
**********					
	A-4676-530-A	MAIN BOARD, COMPLETE (AUS, SP)			
	A-4729-630-A	MAIN BOARD, COMPLETE (AEP, UK)			
		**********			
	7-685-872-09	SCREW +BVTT 3X8 (S)			
		< CAPACITOR >			
C100	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (AUS, SP)
C101	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C102	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C103	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (AEP, UK)
C104	1-126-947-11	ELECT	47uF	20.00%	16V
C105	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C106	1-126-947-11	ELECT	47uF	20.00%	16V
C107	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C108	1-126-962-11	ELECT	3.3uF	20.00%	50V
C109	1-162-940-11	CERAMIC CHIP	9PF	0.5PF	50V
C110	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C111	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V

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Ref. No.	Part No.	Description				Remarks
C112	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C113	1-126-959-11	ELECT	0.47uF	20.00%	50V	
C114	1-126-947-11	ELECT	47uF	20.00%	16V	
C115	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C116	1-126-961-11	ELECT	2.2uF	20.00%	50V	
C117	1-126-947-11	ELECT	47uF	20.00%	16V	
C118	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C119	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C120	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C121	1-162-920-11	CERAMIC CHIP	27PF	5%	50V	
C122	1-162-920-11	CERAMIC CHIP	27PF	5%	50V	
C123	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C124	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C125	1-126-947-11	ELECT	47uF	20.00%	16V	
C126	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C127	1-126-959-11	ELECT	0.47uF	20.00%	50V	
C128	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C129	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C130	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C131	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	(AEP, UK)
C131	1-164-245-11	CERAMIC CHIP	0.015uF	10.00%	25V	(AUS, SP)
C132	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	(AEP, UK)
C132	1-164-245-11	CERAMIC CHIP	0.015uF	10.00%	25V	(AUS, SP)
C133	1-126-960-11	ELECT	1uF	20.00%	50V	
C135	1-126-963-11	ELECT	4.7uF	20.00%	50V	
C136	1-126-963-11	ELECT	4.7uF	20.00%	50V	
C137	1-126-960-11	ELECT	1uF	20.00%	50V	
C138	1-126-963-11	ELECT	4.7uF	20.00%	50V	
C139	1-164-471-11	CERAMIC CHIP	680PF	5.00%	50V	
C140	1-126-964-11	ELECT	10uF	20.00%	50V	
C141	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C142	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	
C143	1-126-964-11	ELECT	10uF	20.00%	50V	
C144	1-126-947-11	ELECT	47uF	20.00%	16V	
C145	1-162-921-11	CERAMIC CHIP	33PF	5%	50V	(AEP, UK)
C146	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C147	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	(AEP, UK)
C147	1-164-245-11	CERAMIC CHIP	0.015uF	10.00%	25V	(AUS, SP)
C148	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C149	1-162-921-11	CERAMIC CHIP	33PF	5%	50V	(AEP, UK)
C150	1-165-176-11	CERAMIC CHIP	0.047uF	10.00%	16V	
C151	1-165-176-11	CERAMIC CHIP	0.047uF	10.00%	16V	
C171	1-126-947-11	ELECT	47uF	20.00%	16V	(AEP, UK)
C172	1-164-156-11	CERAMIC CHIP	0.1uF		25V	(AEP, UK)
C173	1-162-953-11	CERAMIC CHIP	100PF	5%	50V	(AEP, UK)
C175	1-162-959-11	CERAMIC CHIP	330PF	5%	50V	(AEP, UK)
C176	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	(AEP, UK)
C179	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	(AEP, UK)
C180	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	(AEP, UK)
C181	1-126-961-11	ELECT	2.2uF	20.00%	50V	(AEP, UK)
C182	1-162-924-11	CERAMIC CHIP	56PF	5.00%	50V	(AEP, UK)
C183	1-162-924-11	CERAMIC CHIP	56PF	5.00%	50V	(AEP, UK)
C184	1-126-961-11	ELECT	2.2uF	20.00%	50V	(AEP, UK)
C185	1-164-363-11	CERAMIC CHIP	560PF	5.00%	50V	(AEP, UK)
C186	1-126-964-11	ELECT	10uF	20.00%	50V	(AEP, UK)
C187	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	(AEP, UK)
C201	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C202	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C203	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C204	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C221	1-126-963-11	ELECT	4.7uF	20.00%	50V	
C223	1-137-395-91	MYLAR	0.022uF	5.00%	100V	
C225	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C226	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C230	1-162-949-11	CERAMIC CHIP	47PF	5%	50V	
C231	1-162-949-11	CERAMIC CHIP	47PF	5%	50V	
C232	1-126-947-11	ELECT	47uF	20.00%	16V	
C233	1-130-471-00	FILM	0.001uF	5%	50V	
C234	1-130-483-00	MYLAR	0.01uF	5%	50V	
C235	1-126-960-11	ELECT	1uF	20.00%	50V	
C236	1-126-933-11	ELECT	100uF	20.00%	16V	
C237	1-126-960-11	ELECT	1uF	20.00%	50V	
C239	1-130-485-00	MYLAR	0.015uF	5%	50V	
C240	1-126-964-11	ELECT	10uF	20.00%	16V	
C241	1-130-479-00	MYLAR	0.0047uF	5%	50V	
C242	1-130-479-00	MYLAR	0.0047uF	5%	50V	
C244	1-126-947-11	ELECT	47uF	20.00%	16V	
C247	1-126-961-11	ELECT	2.2uF	20.00%	50V	
C248	1-126-961-11	ELECT	2.2uF	20.00%	50V	
C249	1-126-961-11	ELECT	2.2uF	20.00%	50V	
C250	1-126-961-11	ELECT	2.2uF	20.00%	50V	
C252	1-126-964-11	ELECT	10uF	20.00%	50V	
C253	1-126-933-11	ELECT	100uF	20.00%	16V	
C254	1-126-963-11	ELECT	4.7uF	20.00%	25V	
C255	1-126-961-11	ELECT	2.2uF	20.00%	50V	
C256	1-126-959-11	ELECT	0.47uF	20%	50V	
C257	1-126-956-91	ELECT	0.1uF	20.00%	50V	
C258	1-126-963-11	ELECT	4.7uF	20.00%	50V	
C259	1-128-551-11	ELECT	22uF	20.00%	25V	
C260	1-126-959-11	ELECT	0.47uF	20%	50V	
C261	1-126-959-11	ELECT	0.47uF	20%	50V	
C265	1-130-489-00	MYLAR	0.033uF	5%	50V	
C266	1-130-483-00	MYLAR	0.01uF	5%	50V	
C267	1-130-483-00	MYLAR	0.01uF	5%	50V	
C268	1-126-960-11	ELECT	1uF	20.00%	50V	
C269	1-126-960-11	ELECT	1uF	20.00%	50V	
C272	1-126-960-11	ELECT	1uF	20.00%	50V	
C273	1-126-960-11	ELECT	1uF	20.00%	50V	

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Ref. No.	Part No.	Description			Remarks
C285	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C286	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C301	1-126-964-11	ELECT	10uF	20.00%	50V
C302	1-126-964-11	ELECT	10uF	20.00%	50V
C303	1-104-665-11	ELECT	100uF	20.00%	10V
C304	1-126-963-11	ELECT	4.7uF	20.00%	50V (AUS, SP)
C307	1-126-964-11	ELECT	10uF	20.00%	50V
C308	1-126-964-11	ELECT	10uF	20.00%	50V
C309	1-126-964-11	ELECT	10uF	20.00%	50V
C310	1-126-964-11	ELECT	10uF	20.00%	50V
C311	1-126-964-11	ELECT	10uF	20.00%	50V
C312	1-126-964-11	ELECT	10uF	20.00%	50V
C313	1-126-964-11	ELECT	10uF	20.00%	50V
C314	1-126-964-11	ELECT	10uF	20.00%	50V
C317	1-126-964-11	ELECT	10uF	20.00%	50V
C318	1-126-964-11	ELECT	10uF	20.00%	50V
C319	1-130-491-00	MYLAR	0.047uF	5%	50V
C320	1-130-487-00	MYLAR	0.022uF	5%	50V
C321	1-130-487-00	MYLAR	0.022uF	5%	50V
C323	1-130-487-00	MYLAR	0.022uF	5%	50V
C324	1-130-487-00	MYLAR	0.022uF	5%	50V
C325	1-130-491-00	MYLAR	0.047uF	5%	50V
C326	1-130-491-00	MYLAR	0.047uF	5%	50V
C327	1-130-488-00	FILM	0.027uF	5%	50V
C328	1-130-488-00	FILM	0.027uF	5%	50V
C331	1-130-497-00	FILM	0.15uF	5.00%	50V
C332	1-130-497-00	FILM	0.15uF	5.00%	50V
C333	1-130-497-00	FILM	0.15uF	5.00%	50V
C334	1-130-497-00	FILM	0.15uF	5.00%	50V
C337	1-126-964-11	ELECT	10uF	20.00%	50V
C343	1-126-947-11	ELECT	47uF	20.00%	16V
C344	1-126-933-11	ELECT	100uF	20.00%	16V
C345	1-126-933-11	ELECT	100uF	20.00%	16V
C347	1-126-964-11	ELECT	10uF	20.00%	50V
C348	1-126-964-11	ELECT	10uF	20.00%	50V
C349	1-126-964-11	ELECT	10uF	20.00%	50V
C350	1-126-964-11	ELECT	10uF	20.00%	50V
C351	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C352	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C354	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C355	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C357	1-104-665-11	ELECT	100uF	20.00%	10V
C360	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C363	1-107-717-11	ELECT	47uF	20.00%	50V
C364	1-109-953-11	ELECT	2.2uF	20.00%	50V
C369	1-126-964-11	ELECT	10uF	20.00%	50V
C371	1-164-156-11	CERAMIC CHIP	0.1uF		25V (AEP, UK)
C372	1-164-156-11	CERAMIC CHIP	0.1uF		25V (AEP, UK)
C373	1-164-156-11	CERAMIC CHIP	0.1uF		25V (AEP, UK)
C374	1-164-156-11	CERAMIC CHIP	0.1uF		25V (AEP, UK)
C375	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C376	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C377	1-126-963-11	ELECT	4.7uF	20.00%	50V
C378	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C381	1-104-665-11	ELECT	100uF	20.00%	10V
C382	1-126-961-11	ELECT	2.2uF	20.00%	50V
C383	1-126-961-11	ELECT	2.2uF	20.00%	50V
C601	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C602	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C603	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C604	1-162-995-11	CERAMIC CHIP	0.022uF		50V
C605	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C606	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C658	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C660	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C671	1-126-916-11	ELECT	1000uF	20.00%	6.3V
C674	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C676	1-104-665-11	ELECT	100uF	20.00%	10V
C683	1-136-497-00	FILM	0.15uF	5.00%	50V
C684	1-136-497-00	FILM	0.15uF	5.00%	50V
C685	1-126-768-11	ELECT	2200uF	20.00%	16V
C686	1-126-964-11	ELECT	10uF	20.00%	50V
C687	1-126-916-11	ELECT	1000uF	20.00%	6.3V
C688	1-126-964-11	ELECT	10uF	20.00%	50V
C689	1-104-665-11	ELECT	100uF	20.00%	10V
C690	1-126-964-11	ELECT	10uF	20.00%	50V
C691	1-126-933-11	ELECT	100uF	20.00%	16V
C692	1-126-935-11	ELECT	470uF	20.00%	10V
C693	1-130-483-00	MYLAR	0.01uF	5%	50V
C694	1-130-483-00	MYLAR	0.01uF	5%	50V
C697	1-126-943-11	ELECT	2200uF	20.00%	25V
C698	1-126-964-11	ELECT	10uF	20.00%	50V
C699	1-126-935-11	ELECT	470uF	20.00%	16V

< FILTER >

CF101	1-795-426-11	FILTER, CERAMIC (AEP, UK)
CF101	1-760-023-11	FILTER, CERAMIC (AUS, SP)
CF102	1-795-426-11	FILTER, CERAMIC (AEP, UK)
CF102	1-760-023-11	FILTER, CERAMIC (AUS, SP)

< CONNECTOR >

CN302	1-784-774-11	CONNECTOR, FFC 13P
CN303	1-564-506-11	PLUG, CONNECTOR 3P
* CN305	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P
CN306	1-778-982-21	CONNECTOR, BOARD TO BOARD 13P
CN307	1-778-982-21	CONNECTOR, BOARD TO BOARD 13P
CN308	1-793-766-11	CONNECTOR, BOARD TO BOARD 30P

< DIODE >

D101	8-719-914-42	DIODE DA204K-T-146
D107	8-719-988-61	DIODE 1SS355TE-17 (AEP, UK)
D108	8-719-988-61	DIODE 1SS355TE-17
D203	8-719-988-61	DIODE 1SS355TE-17
D204	8-719-988-61	DIODE 1SS355TE-17
D205	8-719-988-61	DIODE 1SS355TE-17
D301	8-719-069-60	DIODE UDZSTE-179.1B
D361	8-719-988-61	DIODE 1SS355TE-17
D371	8-719-988-61	DIODE 1SS355TE-17
D372	8-719-988-61	DIODE 1SS355TE-17
D373	8-719-988-61	DIODE 1SS355TE-17
D374	8-719-988-61	DIODE 1SS355TE-17
D383	8-719-988-61	DIODE 1SS355TE-17
D601	8-719-988-61	DIODE 1SS355TE-17

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

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Ref. No.	Part No.	Description	Remarks
D602	8-719-988-61	DIODE 1SS355TE-17	
D681	8-719-083-89	DIODE 11ES2N-TB5	
D682	8-719-083-89	DIODE 11ES2N-TB5	
D683	8-719-083-89	DIODE 11ES2N-TB5	
D684	8-719-083-89	DIODE 11ES2N-TB5	
D685	8-719-988-61	DIODE 1SS355TE-17	
D686	8-719-988-61	DIODE 1SS355TE-17	
D687	8-719-083-89	DIODE 11ES2N-TB5	
D688	8-719-083-89	DIODE 11ES2N-TB5	
D689	8-719-083-89	DIODE 11ES2N-TB5	
D690	8-719-083-89	DIODE 11ES2N-TB5	
D691	8-719-083-89	DIODE 11ES2N-TB5	
D692	8-719-083-89	DIODE 11ES2N-TB5	
D693	8-719-988-61	DIODE 1SS355TE-17	
		< FERRITE BEAD >	
FB1	1-550-907-21	FERRITE 0UH	
FB2	1-550-907-21	FERRITE 0UH	
		< FRONT END >	
FE101	1-693-496-11	FRONT END (4 GANG) (AEP, UK)	
FE101	1-693-478-11	FRONT END (3 GANG) (AUS, SP)	
		< TERMINAL >	
* GND1	1-537-738-21	TERMINAL, EARTH	
		< IC >	
IC101	8-759-828-33	IC LA1845	
IC102	8-759-590-13	IC LC72131D	
IC103	8-759-541-48	IC BU1924 (AEP, UK)	
IC201	6-702-130-01	IC HA12237F	
IC301	6-702-422-11	IC M61519FPD61G	
IC304	8-759-710-97	IC NJM4565M(TE2)	
IC601	8-759-828-32	IC PT8300	
IC681	8-759-039-69	IC uPC7805AHF	
IC682	8-759-039-69	IC uPC7805AHF	
IC683	8-759-088-08	IC uPC7812AHF	
IC684	8-759-701-59	IC M5F7809L	
		< IFT >	
IFT101	1-435-848-12	TRANSFORMER,IF(CERAMIC FILTER)	
		< JACK/TERMINAL BOARD >	
JK101	1-694-556-22	TERMINAL BOARD (ANT.PAL) (AEP, UK)	
JK101	1-694-555-12	TERMINAL BOARD (4P) (AUS, SP)	
JK301	1-793-987-11	JACK, PIN 2P (MD(VIDEO) IN)	
JK302	1-694-635-12	TERMINAL BOARD (4P)(SPEAKER)	
		< JUMPER RESISTOR >	
JR110	1-216-864-11	METAL CHIP 0 5%	1/16W (AEP, UK)
JR112	1-216-864-11	METAL CHIP 0 5%	1/16W
JR113	1-216-864-11	METAL CHIP 0 5%	1/16W
JR114	1-216-864-11	METAL CHIP 0 5%	1/16W (AUS, SP)
JR116	1-216-864-11	METAL CHIP 0 5%	1/16W (AUS, SP)
JR118	1-216-864-11	METAL CHIP 0 5%	1/16W
JR120	1-216-864-11	METAL CHIP 0 5%	1/16W (AEP, UK)
JR121	1-216-864-11	METAL CHIP 0 5%	1/16W
JR122	1-216-864-11	METAL CHIP 0 5%	1/16W
JR123	1-216-864-11	METAL CHIP 0 5%	1/16W
JR124	1-216-295-91	SHORT CHIP 0	(AEP, UK)
JR603	1-216-864-11	METAL CHIP 0 5%	1/16W
JR606	1-216-864-11	METAL CHIP 0 5%	1/16W
JR609	1-216-864-11	METAL CHIP 0 5%	1/16W (AUS, SP)
JR612	1-216-864-11	METAL CHIP 0 5%	1/16W (AUS, SP)
JR633	1-216-864-11	METAL CHIP 0 5%	1/16W
JR636	1-216-864-11	METAL CHIP 0 5%	1/16W (AEP, UK)
JR637	1-216-864-11	METAL CHIP 0 5%	1/16W (AEP, UK)
JR639	1-216-864-11	METAL CHIP 0 5%	1/16W (AEP, UK)
		< COIL >	
L107	1-410-387-11	INDUCTOR CHIP 33uH (AEP, UK)	
L109	1-410-393-11	INDUCTOR CHIP 100uH (AEP, UK)	
L201	1-437-220-11	TRANSFORMER, BIAS OSCILLATION	
L371	1-422-009-13	COIL, AIR-CORE (AEP, UK)	
L372	1-422-009-13	COIL, AIR-CORE (AEP, UK)	
L671	1-414-189-31	INDUCTOR 100uH	
		< PHOT IC ERRUPTER >	
PH671	8-749-923-04	IC TOTX178A	
		< TRANSISTOR >	
Q101	8-729-922-66	TRANSISTOR 2SC2410S-TPNP	
Q102	8-729-422-57	TRANSISTOR BN1A4M-TP	
Q103	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q104	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q105	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	(AEP, UK)
Q210	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
Q211	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
Q212	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
Q218	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
Q219	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
Q220	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
Q221	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
Q222	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
Q223	8-729-142-46	TRANSISTOR 2SC2001TP-LK	
Q224	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
Q225	8-729-119-76	TRANSISTOR 2SA1175TP-HFE	
Q228	8-729-140-04	TRANSISTOR 2SB1116-TP-LK	
Q301	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
Q302	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
Q361	8-729-116-02	TRANSISTOR BA1A4M-TP	
Q362	8-729-900-63	TRANSISTOR BN1F4M-TP	
Q363	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
Q364	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
Q365	8-729-900-63	TRANSISTOR BN1F4M-TP	
Q371	8-729-142-46	TRANSISTOR 2SC2001TP-LK	

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Ref. No.	Part No.	Description			Remarks
Q381	8-729-119-78	TRANSISTOR	2SC2785TP-HFE		
Q382	8-729-119-78	TRANSISTOR	2SC2785TP-HFE		
Q383	8-729-119-76	TRANSISTOR	2SA1175TP-HFE		
Q384	8-729-116-02	TRANSISTOR	BA1A4M-TP		
Q385	8-729-119-78	TRANSISTOR	2SC2785TP-HFE		
Q386	8-729-119-78	TRANSISTOR	2SC2785TP-HFE		
Q387	8-729-119-78	TRANSISTOR	2SC2785TP-HFE		
Q388	8-729-116-02	TRANSISTOR	BA1A4M-TP		
Q601	8-729-116-02	TRANSISTOR	BA1A4M-TP		
Q602	8-729-140-04	TRANSISTOR	2SB1116-TP-LK		
Q603	8-729-116-02	TRANSISTOR	BA1A4M-TP		
Q604	8-729-140-04	TRANSISTOR	2SB1116-TP-LK		
Q605	8-729-116-02	TRANSISTOR	BA1A4M-TP		
Q606	8-729-116-57	TRANSISTOR	2SB1068TP-K		
Q681	8-729-049-79	TRANSISTOR	RT1P137S-TP		
Q682	8-729-116-02	TRANSISTOR	BA1A4M-TP		
		< RESISTOR >			
R101	1-216-805-11	METAL CHIP	47	5%	1/16W
R102	1-216-819-11	METAL CHIP	680	5%	1/16W
R103	1-216-819-11	METAL CHIP	680	5%	1/16W
R104	1-216-811-11	METAL CHIP	150	5%	1/16W
R105	1-216-821-11	METAL CHIP	1K	5%	1/16W
R106	1-216-819-11	METAL CHIP	680	5%	1/16W (AEP, UK)
R106	1-216-815-11	METAL CHIP	330	5%	1/16W (AUS, SP)
R108	1-216-815-11	METAL CHIP	330	5%	1/16W
R109	1-216-805-11	METAL CHIP	47	5%	1/16W
R110	1-216-833-11	METAL CHIP	10K	5%	1/16W (AEP, UK)
R111	1-216-809-11	METAL CHIP	100	5%	1/16W
R112	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R113	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R114	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R115	1-216-833-11	METAL CHIP	10K	5%	1/16W
R116	1-216-809-11	METAL CHIP	100	5%	1/16W
R117	1-216-845-11	METAL CHIP	100K	5%	1/16W
R118	1-216-809-11	METAL CHIP	100	5%	1/16W
R119	1-216-833-11	METAL CHIP	10K	5%	1/16W
R120	1-216-833-11	METAL CHIP	10K	5%	1/16W
R121	1-216-821-11	METAL CHIP	1K	5%	1/16W
R122	1-216-833-11	METAL CHIP	10K	5%	1/16W
R123	1-216-833-11	METAL CHIP	10K	5%	1/16W
R124	1-216-813-11	METAL CHIP	220	5%	1/16W (AEP, UK)
R124	1-216-814-11	METAL CHIP	270	5%	1/16W (AUS, SP)
R125	1-216-833-11	METAL CHIP	10K	5%	1/16W
R126	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R127	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R128	1-216-837-11	METAL CHIP	22K	5%	1/16W (AEP, UK)
R128	1-216-822-11	METAL CHIP	1.2K	5%	1/16W (AUS, SP)
R129	1-216-837-11	METAL CHIP	22K	5%	1/16W (AEP, UK)
R129	1-216-822-11	METAL CHIP	1.2K	5%	1/16W (AUS, SP)
R130	1-216-827-11	METAL CHIP	3.3K	5%	1/16W (AEP, UK)
R131	1-216-833-11	METAL CHIP	10K	5%	1/16W (AEP, UK)
R131	1-216-837-11	METAL CHIP	22K	5%	1/16W (AUS, SP)
R132	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R133	1-216-817-11	METAL CHIP	470	5%	1/16W (AEP, UK)
R133	1-216-821-11	METAL CHIP	1K	5%	1/16W (AUS, SP)
R134	1-216-817-11	METAL CHIP	470	5%	1/16W (AEP, UK)
R134	1-216-821-11	METAL CHIP	1K	5%	1/16W (AUS, SP)
R135	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R136	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R137	1-216-843-11	METAL CHIP	68K	5%	1/16W
R138	1-216-833-11	METAL CHIP	10K	5%	1/16W (AEP, UK)
R138	1-216-809-11	METAL CHIP	100	5%	1/16W (AUS, SP)
R139	1-216-837-11	METAL CHIP	22K	5%	1/16W
R140	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R141	1-216-813-11	METAL CHIP	220	5%	1/16W (AEP, UK)
R141	1-216-814-11	METAL CHIP	270	5%	1/16W (AUS, SP)
R142	1-216-839-11	METAL CHIP	33K	5%	1/16W (AEP, UK)
R143	1-216-829-11	METAL CHIP	4.7K	5%	1/16W (AEP, UK)
R143	1-216-849-11	METAL CHIP	220K	5%	1/16W (AUS, SP)
R144	1-216-829-11	METAL CHIP	4.7K	5%	1/16W (AEP, UK)
R144	1-216-849-11	METAL CHIP	220K	5%	1/16W (AUS, SP)
R146	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R171	1-216-809-11	METAL CHIP	100	5%	1/16W (AEP, UK)
R172	1-216-841-11	METAL CHIP	47K	5%	1/16W (AEP, UK)
R173	1-216-837-11	METAL CHIP	22K	5%	1/16W (AEP, UK)
R174	1-216-821-11	METAL CHIP	1K	5%	1/16W (AEP, UK)
R175	1-216-817-11	METAL CHIP	470	5%	1/16W (AEP, UK)
R177	1-216-805-11	METAL CHIP	47	5%	1/16W (AEP, UK)
R181	1-216-829-11	METAL CHIP	4.7K	5%	1/16W (AEP, UK)
R183	1-216-813-11	METAL CHIP	220	5%	1/16W (AEP, UK)
R215	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R216	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R218	1-216-849-11	METAL CHIP	220K	5%	1/16W
R219	1-216-833-11	METAL CHIP	10K	5%	1/16W
R220	1-216-833-11	METAL CHIP	10K	5%	1/16W
R225	1-216-833-11	METAL CHIP	10K	5%	1/16W
R226	1-216-833-11	METAL CHIP	10K	5%	1/16W

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Ref. No.	Part No.	Description			Remarks
R231	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R232	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R233	1-216-837-11	METAL CHIP	22K	5%	1/16W
R234	1-216-837-11	METAL CHIP	22K	5%	1/16W
R235	1-216-833-11	METAL CHIP	10K	5%	1/16W
R236	1-216-821-11	METAL CHIP	1K	5%	1/16W
R237	1-216-857-11	METAL CHIP	1M	5%	1/16W
R238	1-216-853-11	METAL CHIP	470K	5%	1/16W
R239	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R241	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R242	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R245	1-216-833-11	METAL CHIP	10K	5%	1/16W
R246	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R249	1-216-853-11	METAL CHIP	470K	5%	1/10W
R250	1-216-849-11	METAL CHIP	220K	5%	1/10W
R251	1-216-797-11	METAL CHIP	10	5%	1/10W
R252	1-216-837-11	METAL CHIP	22K	5%	1/16W
R253	1-216-833-11	METAL CHIP	10K	5%	1/16W
R254	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R256	1-216-833-11	METAL CHIP	10K	5%	1/16W
R257	1-216-817-11	METAL CHIP	470	5%	1/16W
R258	1-216-813-11	METAL CHIP	220	5%	1/16W
R260	1-216-814-11	METAL CHIP	270	5%	1/16W
R261	1-216-817-11	METAL CHIP	470	5%	1/16W
R262	1-216-845-11	METAL CHIP	100K	5%	1/16W
R263	1-216-833-11	METAL CHIP	10K	5%	1/16W
R264	1-216-833-11	METAL CHIP	10K	5%	1/16W
R265	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R266	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R267	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R268	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R270	1-216-833-11	METAL CHIP	10K	5%	1/16W
R271	1-216-833-11	METAL CHIP	10K	5%	1/16W
R272	1-216-833-11	METAL CHIP	10K	5%	1/16W
R278	1-216-837-11	METAL CHIP	22K	5%	1/16W
R282	1-216-813-11	METAL CHIP	220	5%	1/16W
R283	1-216-833-11	METAL CHIP	10K	5%	1/16W
R284	1-216-841-11	METAL CHIP	47K	5%	1/16W
R285	1-216-833-11	METAL CHIP	10K	5%	1/16W
R286	1-216-833-11	METAL CHIP	10K	5%	1/16W
R287	1-216-841-11	METAL CHIP	47K	5%	1/16W
R288	1-216-841-11	METAL CHIP	47K	5%	1/16W
R301	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R302	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R303	1-216-837-11	METAL CHIP	22K	5%	1/16W
R304	1-216-837-11	METAL CHIP	22K	5%	1/16W
R305	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R306	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R310	1-216-841-11	METAL CHIP	47K	5%	1/16W
R317	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R318	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R319	1-216-821-11	METAL CHIP	1K	5%	1/16W
R320	1-216-821-11	METAL CHIP	1K	5%	1/16W
R323	1-216-809-11	METAL CHIP	100	5%	1/16W
R324	1-216-821-11	METAL CHIP	1K	5%	1/16W
R325	1-216-833-11	METAL CHIP	10K	5%	1/16W
R326	1-216-833-11	METAL CHIP	10K	5%	1/16W

Ref. No.	Part No.	Description			Remarks
R327	1-216-829-11	METAL CHIP	4.7K	5%	1/16W (AUS, SP)
R331	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R332	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R333	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R334	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R335	1-216-845-11	METAL CHIP	100K	5%	1/16W
R336	1-216-845-11	METAL CHIP	100K	5%	1/16W
R337	1-216-833-11	METAL CHIP	10K	5%	1/16W
R338	1-216-833-11	METAL CHIP	10K	5%	1/16W
R348	1-216-813-11	METAL CHIP	220	5%	1/16W
R349	1-216-813-11	METAL CHIP	220	5%	1/16W
R352	1-216-846-11	METAL CHIP	120K	5%	1/16W
R357	1-216-845-11	METAL CHIP	100K	5%	1/16W
R358	1-216-837-11	METAL CHIP	22K	5%	1/16W
R359	1-216-805-11	METAL CHIP	47	5%	1/16W
R360	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R361	1-215-868-00	METAL OXIDE	680	5%	1W
R362	1-215-868-00	METAL OXIDE	680	5%	1W
R363	1-216-821-11	METAL CHIP	1K	5%	1/16W
R364	1-216-821-11	METAL CHIP	1K	5%	1/16W
R365	1-216-841-11	METAL CHIP	47K	5%	1/16W
R366	1-216-833-11	METAL CHIP	10K	5%	1/16W
R367	1-216-821-11	METAL CHIP	1K	5%	1/16W
R368	1-216-845-11	METAL CHIP	100K	5%	1/16W
R369	1-216-833-11	METAL CHIP	10K	5%	1/16W
R370	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R371	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R372	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R373	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R374	1-216-841-11	METAL CHIP	47K	5%	1/16W
R375	1-216-809-11	METAL CHIP	100	5%	1/16W
R377	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R379	1-215-862-11	METAL OXIDE	68	5%	1W
R380	1-260-304-51	CARBON	10	5%	1/2W (AEP, UK)
R381	1-216-841-11	METAL CHIP	47K	5%	1/16W
R382	1-216-843-11	METAL CHIP	68K	5%	1/16W
R383	1-216-833-11	METAL CHIP	10K	5%	1/16W
R384	1-216-833-11	METAL CHIP	10K	5%	1/16W
R385	1-216-839-11	METAL CHIP	33K	5%	1/16W
R386	1-216-837-11	METAL CHIP	22K	5%	1/16W
R387	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R388	1-216-837-11	METAL CHIP	22K	5%	1/16W
R389	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R390	1-260-304-51	CARBON	10	5%	1/2W (AEP, UK)
R391	1-260-304-51	CARBON	10	5%	1/2W (AEP, UK)
R392	1-260-304-51	CARBON	10	5%	1/2W (AEP, UK)
R393	1-215-862-11	METAL OXIDE	68	5%	1W
R395	1-216-841-11	METAL CHIP	47K	5%	1/16W
R601	1-216-821-11	METAL CHIP	1K	5%	1/16W
R602	1-216-821-11	METAL CHIP	1K	5%	1/16W
R603	1-216-821-11	METAL CHIP	1K	5%	1/16W
R604	1-216-821-11	METAL CHIP	1K	5%	1/16W
R605	1-216-821-11	METAL CHIP	1K	5%	1/16W
R606	1-216-821-11	METAL CHIP	1K	5%	1/16W

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MAIN **MIC** **MOTOR** **PANEL**

Ref. No.	Part No.	Description			Remarks
R607	1-216-832-11	METAL CHIP	8.2K	5%	1/16W
R608	1-216-832-11	METAL CHIP	8.2K	5%	1/16W
R609	1-216-844-11	METAL CHIP	82K	5%	1/16W
R610	1-216-840-11	METAL CHIP	39K	5%	1/16W
R611	1-216-844-11	METAL CHIP	82K	5%	1/16W
R612	1-216-832-11	METAL CHIP	8.2K	5%	1/16W
R613	1-216-832-11	METAL CHIP	8.2K	5%	1/16W
R614	1-216-840-11	METAL CHIP	39K	5%	1/16W
R615	1-216-832-11	METAL CHIP	8.2K	5%	1/16W
R616	1-216-836-11	METAL CHIP	18K	5%	1/16W
R617	1-216-832-11	METAL CHIP	8.2K	5%	1/16W
R618	1-216-832-11	METAL CHIP	8.2K	5%	1/16W
R619	1-216-841-11	METAL CHIP	47K	5%	1/16W
R620	1-216-841-11	METAL CHIP	47K	5%	1/16W
R621	1-216-833-11	METAL CHIP	10K	5%	1/16W
R622	1-216-809-11	METAL CHIP	100	5%	1/16W
R623	1-216-809-11	METAL CHIP	100	5%	1/16W
R624	1-216-809-11	METAL CHIP	100	5%	1/16W
R625	1-216-809-11	METAL CHIP	100	5%	1/16W
		< COMPOSITION CIRCUIT BLOCK >			
RB101	1-234-575-11	ENCAPSULATED COMPONENT			
		< VARIABLE RESISTOR >			
RV101	1-241-765-11	RES, ADJ, CARBON 22K			
		< RELAY >			
RY371	1-755-373-11	RELAY			
RY372	1-755-373-11	RELAY			
		< TRANSFORMER >			
T101	1-435-792-11	TRANSFORMER, DISCRIMINATOR			
		< VIBRATOR >			
X101	1-760-549-31	VIBRATOR, CRYSTAL(4.5MHz)			
X102	1-579-900-21	VIBRATOR, CRYSTAL(4.332MHz) (AEP, UK)			
**********					
	1-684-557-11	MIC BOARD (AUS, SP)			
		**********			
		< CONNECTOR >			
* CN663	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P			
		< JACK >			
JK802	1-770-226-11	JACK (LARGE TYPE)(MIC)			
**********					
	1-675-910-14	MOTOR BOARD			
		**********			
		< CAPACITOR >			
C721	1-162-306-11	CERAMIC	0.01uF	30.00%	16V
		< CONNECTOR >			
CN721	1-770-516-31	CONNECTOR, FFC 8P			
CN722	1-785-330-11	PIN, CONNECTOR (LIGHT ANGLE)4P			

Ref. No.	Part No.	Description			Remarks
		< SWITCH >			
S701	1-771-822-11	SWITCH, LEVER (SLIDE) (OPEN/CLOSE SW)			
**********					
	A-4676-518-A	PANEL BOARD, COMPLETE (SP)			
	A-4729-314-A	PANEL BOARD, COMPLETE (AUS)			
	A-4729-638-A	PANEL BOARD, COMPLETE (AEP, UK)			
		**********			
	4-238-647-01	FL HOLDER L			
	4-238-648-01	FL HOLDER R			
		< CAPACITOR >			
C640	1-162-293-31	CERAMIC	820PF	10.00%	50V
C641	1-126-957-11	ELECT	0.22uF	20.00%	50V
C642	1-130-489-00	MYLAR	0.033uF	5%	50V
C643	1-162-302-11	CERAMIC	0.0022uF	20.00%	16V
C644	1-126-957-11	ELECT	0.22uF	20.00%	50V
C645	1-126-957-11	ELECT	0.22uF	20.00%	50V
C646	1-162-306-11	CERAMIC	0.01uF	30.00%	16V
C647	1-126-957-11	ELECT	0.22uF	20.00%	50V
C648	1-126-959-11	ELECT	0.47uF	20.00%	50V
C649	1-110-671-31	CERAMIC	47000PF		50V
C650	1-126-957-11	ELECT	0.22uF	20.00%	50V
C651	1-126-961-11	ELECT	2.2uF	20.00%	50V
C801	1-126-964-11	ELECT	10uF	20.00%	50V
C802	1-126-964-11	ELECT	10uF	20.00%	50V
C803	1-124-589-11	ELECT	47uF	20%	16V
C806	1-161-494-00	CERAMIC	0.022uF		25V
C807	1-162-294-31	CERAMIC	0.001uF	10%	50V
C808	1-162-294-31	CERAMIC	0.001uF	10%	50V
C809	1-162-290-31	CERAMIC	470PF	10%	50V
C810	1-162-290-31	CERAMIC	470PF	10%	50V
C811	1-126-916-11	ELECT	1000uF	20.00%	6.3V
C812	1-126-964-11	ELECT	10uF	20.00%	50V
C813	1-136-165-00	FILM	0.1uF	5.00%	50V
C814	1-161-494-00	CERAMIC	0.022uF		25V
C815	1-136-165-00	FILM	0.1uF	5.00%	50V
C816	1-162-203-31	CERAMIC	15PF	5.00%	50V
C817	1-162-205-31	CERAMIC	18PF	5%	50V
C818	1-164-159-21	CERAMIC	0.1uF		50V
C819	1-128-551-11	ELECT	22uF	20.00%	25V
C820	1-164-159-21	CERAMIC	0.1uF		50V
C822	1-162-282-31	CERAMIC	100PF	10%	50V
C823	1-162-282-31	CERAMIC	100PF	10%	50V
C824	1-162-282-31	CERAMIC	100PF	10%	50V
C825	1-162-282-31	CERAMIC	100PF	10%	50V
C826	1-162-282-31	CERAMIC	100PF	10%	50V
C827	1-162-282-31	CERAMIC	100PF	10%	50V
C828	1-162-282-31	CERAMIC	100PF	10%	50V
C829	1-162-282-31	CERAMIC	100PF	10%	50V
C830	1-162-282-31	CERAMIC	100PF	10%	50V
C831	1-162-282-31	CERAMIC	100PF	10%	50V
C832	1-162-282-31	CERAMIC	100PF	10%	50V
C833	1-162-282-31	CERAMIC	100PF	10%	50V
C834	1-162-282-31	CERAMIC	100PF	10%	50V
C835	1-104-665-11	ELECT	100uF	20.00%	10V (AUS, SP)
C836	1-162-294-31	CERAMIC	0.001uF	10%	50V

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Ref. No.	Part No.	Description	Remarks
C837	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C838	1-104-665-11	ELECT 100uF 20.00% 10V	(AUS, SP)
C839	1-162-306-11	CERAMIC 0.01uF 30.00% 16V	
C840	1-162-306-11	CERAMIC 0.01uF 30.00% 16V	
C841	1-162-306-11	CERAMIC 0.01uF 30.00% 16V	
C854	1-162-215-31	CERAMIC 47PF 5% 50V	(AUS,SP)
C855	1-126-957-11	ELECT 0.22uF 20.00% 50V	(AUS,SP)
C856	1-162-294-31	CERAMIC 0.001uF 10% 50V	(AUS,SP)
C857	1-162-306-11	CERAMIC 0.01uF 30.00% 16V	(AUS,SP)
C858	1-126-956-91	ELECT 0.1uF 20.00% 50V	(AUS,SP)
C859	1-162-290-31	CERAMIC 470PF 10% 50V	(AUS,SP)
C861	1-162-215-31	CERAMIC 47PF 5% 50V	(AUS,SP)
C862	1-162-282-31	CERAMIC 100PF 10% 50V	(AUS,SP)
C863	1-126-961-11	ELECT 2.2uF 20.00% 50V	(AUS,SP)
C864	1-164-159-21	CERAMIC 0.1uF 50V	
C865	1-126-964-11	ELECT 10uF 20.00% 50V	(AUS,SP)
C866	1-126-964-11	ELECT 10uF 20.00% 50V	(AUS,SP)
C867	1-164-159-21	CERAMIC 0.1uF 50V	(AUS,SP)
C870	1-126-961-11	ELECT 2.2uF 20.00% 50V	(AUS,SP)
C878	1-164-159-21	CERAMIC 0.1uF 50V	
C879	1-164-159-21	CERAMIC 0.1uF 50V	
C880	1-164-159-21	CERAMIC 0.1uF 50V	(AUS,SP)
		< CONNECTOR >	
* CN661	1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P	
CN666	1-816-422-11	PIN, CONNECTOR 3P	
CN804	1-784-780-11	CONNECTOR, FFC 19P	
		< DIODE >	
D602	8-719-991-33	DIODE 1SS133T-77	
D801	8-719-991-33	DIODE 1SS133T-77	
D802	8-719-991-33	DIODE 1SS133T-77	
D803	8-719-991-33	DIODE 1SS133T-77	
D804	8-719-991-33	DIODE 1SS133T-77	
D805	8-719-991-33	DIODE 1SS133T-77	
D806	8-719-991-33	DIODE 1SS133T-77	
D807	8-719-991-33	DIODE 1SS133T-77	
D808	8-719-991-33	DIODE 1SS133T-77	
D809	8-719-991-33	DIODE 1SS133T-77 (AUS,SP)	
D812	8-719-991-33	DIODE 1SS133T-77 (AEP, UK)	
D817	8-719-991-33	DIODE 1SS133T-77	
D818	8-719-991-33	DIODE 1SS133T-77	
D819	8-719-991-33	DIODE 1SS133T-77	
D820	8-719-991-33	DIODE 1SS133T-77	
D821	8-719-991-33	DIODE 1SS133T-77	
D822	8-719-200-82	DIODE 11ES2-NTA1B	

Ref. No.	Part No.	Description	Remarks
D823	8-719-991-33	DIODE 1SS133T-77	
D824	8-719-991-33	DIODE 1SS133T-77	
D825	8-719-991-33	DIODE 1SS133T-77	
D826	8-719-991-33	DIODE 1SS133T-77	
		< FERRITE BEAD >	
FB801	1-412-473-21	INDUCTOR 0UH	
		< FLUORESCENT INDICATOR >	
FLD801	1-518-793-11	INDICATOR TUBE, FLUORESCENT	
		< IC >	
IC801	6-801-217-01	IC LC876662B-5Z81	
IC802	8-759-710-97	IC NJM4565M(TE2) (AUS, SP)	
IC803	8-759-635-63	IC M51943BSL-TP	
IC804	8-759-828-32	IC PT8300	
		< JACK >	
JK801	1-691-293-21	JACK (PHONES)	
JK803	1-815-684-11	JACK, PIN 3P (GAME IN VIDEO/AUDIO)	
		< DIODE >	
LED603	8-719-058-04	DIODE SEL5223S-TP15	
LED604	8-719-057-97	DIODE SEL5923A-TP15	
LED605	8-719-057-97	DIODE SEL5923A-TP15	
LED606	8-719-057-97	DIODE SEL5923A-TP15	
LED607	8-719-057-97	DIODE SEL5923A-TP15	
LED608	8-719-057-97	DIODE SEL5923A-TP15	
		< TRANSISTOR >	
Q801	8-729-119-78	TRANSISTOR 2SC2785TP-HFE (AUS,SP)	
Q809	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
		< RESISTOR >	
R640	1-249-419-11	CARBON 1.5K 5% 1/4W F	
R641	1-247-895-91	CARBON 470K 5% 1/4W	
R642	1-249-437-11	CARBON 47K 5% 1/4W	
R643	1-249-419-11	CARBON 1.5K 5% 1/4W F	
R644	1-247-895-91	CARBON 470K 5% 1/4W	
R645	1-249-437-11	CARBON 47K 5% 1/4W	
R646	1-249-419-11	CARBON 1.5K 5% 1/4W F	
R647	1-247-895-91	CARBON 470K 5% 1/4W	
R648	1-249-437-11	CARBON 47K 5% 1/4W	
R649	1-249-419-11	CARBON 1.5K 5% 1/4W F	
R650	1-247-895-91	CARBON 470K 5% 1/4W	
R651	1-249-437-11	CARBON 47K 5% 1/4W	
R652	1-249-433-11	CARBON 22K 5% 1/4W	
R653	1-247-895-91	CARBON 470K 5% 1/4W	
R681	1-247-807-31	CARBON 100 5% 1/4W	
R682	1-247-807-31	CARBON 100 5% 1/4W	
R683	1-247-807-31	CARBON 100 5% 1/4W	
R684	1-247-807-31	CARBON 100 5% 1/4W	
R685	1-247-807-31	CARBON 100 5% 1/4W	
R686	1-247-807-31	CARBON 100 5% 1/4W	
R687	1-247-807-31	CARBON 100 5% 1/4W	
R688	1-247-807-31	CARBON 100 5% 1/4W	
R689	1-247-807-31	CARBON 100 5% 1/4W	

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PANEL

Ref. No.	Part No.	Description			Remarks
R690	1-247-807-31	CARBON	100	5%	1/4W
R801	1-249-410-11	CARBON	270	5%	1/4W F
R808	1-249-429-11	CARBON	10K	5%	1/4W
R809	1-249-429-11	CARBON	10K	5%	1/4W
R810	1-247-860-11	CARBON	16K	5%	1/4W
R811	1-249-417-11	CARBON	1K	5%	1/4W F
R812	1-249-417-11	CARBON	1K	5%	1/4W F
R813	1-249-417-11	CARBON	1K	5%	1/4W F
R814	1-249-417-11	CARBON	1K	5%	1/4W F
R815	1-249-417-11	CARBON	1K	5%	1/4W F
R824	1-247-860-11	CARBON	15K	5%	1/4W
R825	1-249-413-11	CARBON	16K	5%	1/4W
R826	1-249-415-11	CARBON	680	5%	1/4W F
R827	1-249-417-11	CARBON	1K	5%	1/4W F
R828	1-249-419-11	CARBON	1.5K	5%	1/4W F
R829	1-249-419-11	CARBON	1.5K	5%	1/4W F
R830	1-249-421-11	CARBON	2.2K	5%	1/4W F
R831	1-247-843-11	CARBON	3.3K	5%	1/4W
R832	1-249-425-11	CARBON	4.7K	5%	1/4W F
R833	1-249-427-11	CARBON	6.8K	5%	1/4WF
R834	1-249-429-11	CARBON	10K	5%	1/4W
R838	1-247-860-11	CARBON	16K	5%	1/4W
R839	1-249-413-11	CARBON	470	5%	1/4W F
R840	1-249-415-11	CARBON	680	5%	1/4W F
R841	1-249-417-11	CARBON	1K	5%	1/4W F
R842	1-249-419-11	CARBON	1.5K	5%	1/4W F
R843	1-249-419-11	CARBON	1.5K	5%	1/4W F
R844	1-249-421-11	CARBON	2.2K	5%	1/4W F
R846	1-249-429-11	CARBON	10K	5%	1/4W
R847	1-259-884-11	CARBON	4.7M	5%	1/4W
R848	1-249-415-11	CARBON	680	5%	1/4W F
R852	1-247-807-31	CARBON	100	5%	1/4W
R853	1-249-401-11	CARBON	47	5%	1/4W F
R854	1-249-429-11	CARBON	10K	5%	1/4W
R855	1-249-437-11	CARBON	47K	5%	1/4W
R856	1-249-437-11	CARBON	47K	5%	1/4W
R857	1-249-425-11	CARBON	4.7K	5%	1/4W F
R858	1-249-429-11	CARBON	10K	5%	1/4W
R859	1-249-429-11	CARBON	10K	5%	1/4W
R860	1-249-434-11	CARBON	27K	5%	1/4W
R861	1-249-434-11	CARBON	27K	5%	1/4W
R862	1-249-429-11	CARBON	10K	5%	1/4W
R863	1-249-429-11	CARBON	10K	5%	1/4W
R864	1-249-429-11	CARBON	10K	5%	1/4W
R865	1-249-437-11	CARBON	47K	5%	1/4W
R866	1-249-437-11	CARBON	47K	5%	1/4W
R867	1-249-437-11	CARBON	47K	5%	1/4W
R868	1-249-437-11	CARBON	47K	5%	1/4W
R869	1-249-429-11	CARBON	10K	5%	1/4W
R870	1-249-429-11	CARBON	10K	5%	1/4W
R871	1-249-430-11	CARBON	12K	5%	1/4W (AUS,SP)
R872	1-249-429-11	CARBON	10K	5%	1/4W (AUS,SP)
R873	1-249-429-11	CARBON	10K	5%	1/4W
R874	1-249-429-11	CARBON	10K	5%	1/4W
R875	1-249-417-11	CARBON	1K	5%	1/4W F (AUS,SP)
R876	1-249-421-11	CARBON	2.2K	5%	1/4W F
R877	1-247-891-00	CARBON	330K	5%	1/4W
R878	1-249-417-11	CARBON	1K	5%	1/4W F
R879	1-249-441-11	CARBON	100K	5%	1/4W (AUS,SP)
R880	1-249-429-11	CARBON	10K	5%	1/4W
R881	1-249-429-11	CARBON	10K	5%	1/4W
R884	1-249-441-11	CARBON	100K	5%	1/4W (AUS,SP)
R885	1-249-429-11	CARBON	10K	5%	1/4W (AUS,SP)
R886	1-249-417-11	CARBON	1K	5%	1/4W F (AUS,SP)
R887	1-249-433-11	CARBON	22K	5%	1/4W (AUS,SP)
R888	1-247-807-31	CARBON	100	5%	1/4W (AUS,SP)
R889	1-249-429-11	CARBON	10K	5%	1/4W (AUS,SP)
R890	1-247-883-00	CARBON	150K	5%	1/4W (AUS,SP)
R891	1-247-807-31	CARBON	100	5%	1/4W (AUS,SP)
R892	1-247-807-31	CARBON	100	5%	1/4W
R893	1-247-807-31	CARBON	100	5%	1/4W
R894	1-247-807-31	CARBON	100	5%	1/4W
R895	1-247-807-31	CARBON	100	5%	1/4W
R896	1-247-807-31	CARBON	100	5%	1/4W
R897	1-249-417-11	CARBON	1K	5%	1/4W F (AUS,SP)
R899	1-249-429-11	CARBON	10K	5%	1/4W
		< VIBRATOR >			
RES801	1-579-175-11	VIBRATOR, CERAMIC(10MHz)			
		< SWITCH >			
S814	1-762-875-21	SWITCH, KEYBOARD (I/⏻)			
S815	1-762-875-21	SWITCH, KEYBOARD (DISPLAY)			
S816	1-762-875-21	SWITCH, KEYBOARD (DISK 1)			
S817	1-762-875-21	SWITCH, KEYBOARD (DISK 2)			
S818	1-762-875-21	SWITCH, KEYBOARD (DISK 3)			
S819	1-762-875-21	SWITCH, KEYBOARD (⏏ OPEN/CLOSE)			
S820	1-762-875-21	SWITCH, KEYBOARD (DISK SKIP/EX-CHANGE)			
S821	1-762-875-21	SWITCH, KEYBOARD (TUNER MEMORY)			
S822	1-762-875-21	SWITCH, KEYBOARD (FM MODE)			
S823	1-762-875-21	SWITCH, KEYBOARD (DIRECTION)			
S827	1-762-875-21	SWITCH, KEYBOARD (CD)			
S828	1-762-875-21	SWITCH, KEYBOARD (TUNER/BAND)			
S829	1-762-875-21	SWITCH, KEYBOARD (MD(VIDEO))			
S830	1-762-875-21	SWITCH, KEYBOARD (TAPE A/B)			
S831	1-762-875-21	SWITCH, KEYBOARD (GAME)			
S832	1-762-875-21	SWITCH, KEYBOARD (SPECTRUM)			
		< VARIABLE RESISTOR >			
VR801	1-225-739-11	RES, VAR CARBON 50K(MIC LEVEL) (AUS,SP)			
VR802	1-477-194-11	ENCODER, ROTARY(VOLUME)			
		< VIBRATOR >			
X801	1-567-098-41	VIBRATOR, CRYSTAL (32.768MHz)			

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POWER REM

Ref. No.	Part No.	Description			Remarks
	A-4676-523-A	POWER BOARD, COMPLETE (AUS, SP)			
	A-4729-636-A	POWER BOARD, COMPLETE (AEP, UK)			
		**********			
		< CAPACITOR >			
C501	1-126-964-11	ELECT	10uF	20.00% 50V	
C502	1-162-294-31	CERAMIC	0.001uF	10% 50V	
C503	1-162-286-21	CERAMIC	220PF	10.00% 50V	
C504	1-128-551-11	ELECT	22uF	20.00% 25V	
C507	1-130-493-00	MYLAR	0.068uF	5% 50V	
C508	1-130-493-00	MYLAR	0.068uF	5% 50V	
C509	1-128-560-11	ELECT	22uF	20.00% 100V	
C511	1-162-306-11	CERAMIC	0.01uF	30.00% 16V	
C512	1-162-294-31	CERAMIC	0.001uF	10% 50V	(AEP, UK)
C513	1-164-159-21	CERAMIC	0.1uF	50V	(AEP, UK)
C541	1-130-777-00	MYLAR	0.1uF	10.00% 100V	
C542	1-137-847-11	ELECT	2200uF	20% 71V	
C543	1-164-159-21	CERAMIC	0.1uF	50V	
C544	1-126-942-61	ELECT	1000uF	20.00% 25V	
C546	1-128-549-11	ELECT	3300uF	20.00% 35V	
C551	1-126-964-11	ELECT	10uF	20.00% 50V	
C552	1-162-294-31	CERAMIC	0.001uF	10% 50V	
C553	1-162-286-21	CERAMIC	220PF	10.00% 50V	
C554	1-128-551-11	ELECT	22uF	20.00% 25V	
C557	1-130-493-00	MYLAR	0.068uF	5% 50V	
C558	1-130-493-00	MYLAR	0.068uF	5% 50V	
C559	1-128-560-11	ELECT	22uF	20.00% 100V	
C591	1-130-777-00	MYLAR	0.1uF	10.00% 100V	
C592	1-137-847-11	ELECT	2200uF	20% 71V	
		< CONNECTOR >			
CN502	1-778-981-21	CONNECTOR, BOARD TO BOARD 13P			
CN503	1-778-981-21	CONNECTOR, BOARD TO BOARD 13P			
* CN504	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P			
		< DIODE >			
D501	8-719-991-33	DIODE 1SS133T-77			
D502	8-719-991-33	DIODE 1SS133T-77			
D541	8-719-510-68	DIODE D5SBA204101			
D542	8-719-200-82	DIODE 11ES2-NTA1B			
D543	8-719-200-82	DIODE 11ES2-NTA1B			
D551	8-719-991-33	DIODE 1SS133T-77			
		< TERMINAL >			
* EP501	1-537-738-21	TERMINAL, EARTH (AEP, UK)			
* EP502	1-537-738-21	TERMINAL, EARTH			
		< IC >			
IC501	8-749-017-16	IC STK442-130			
		< TRANSISTOR >			
Q501	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA		
Q503	8-729-140-82	TRANSISTOR	2SA988TP-PAFAEA		
Q504	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA		
Q551	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA		
Q581	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA		

Ref. No.	Part No.	Description			Remarks
Q582	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA		
Q583	8-729-900-36	TRANSISTOR	BA1F4M-TP		
Q584	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA		
		< RESISTOR >			
R501	1-249-417-11	CARBON	1K	5% 1/4W F	
R502	1-249-438-11	CARBON	56K	5% 1/4W	
R503	1-249-415-11	CARBON	680	5% 1/4W F	
R504	1-249-438-11	CARBON	56K	5% 1/4W	
R505	1-249-417-11	CARBON	1K	5% 1/4W F	
R506	1-249-431-11	CARBON	15K	5% 1/4W	
R507	1-249-441-11	CARBON	100K	5% 1/4W	
⚠R508	1-217-156-00	METAL	0.22	20% 5W	
R509	1-260-076-11	CARBON	10	5% 1/2W	
⚠R510	1-217-156-00	METAL	0.22	20% 5W	
⚠R511	1-212-881-11	FUSIBLE	100	5% 1/4W	
⚠R512	1-202-972-61	FUSIBLE	1	5% 1/4W	
R513	1-249-433-11	CARBON	22K	5% 1/4W	
R514	1-249-421-11	CARBON	2.2K	5% 1/4W F	
R515	1-249-433-11	CARBON	22K	5% 1/4W	
R516	1-249-429-11	CARBON	10K	5% 1/4W	
R517	1-249-421-11	CARBON	2.2K	5% 1/4W F	
R518	1-249-429-11	CARBON	10K	5% 1/4W	
R519	1-249-433-11	CARBON	22K	5% 1/4W	
R520	1-249-441-11	CARBON	100K	5% 1/4W	
R521	1-249-441-11	CARBON	100K	5% 1/4W	
R522	1-249-441-11	CARBON	100K	5% 1/4W	
R523	1-249-409-11	CARBON	220	5% 1/4W F	
R524	1-247-897-11	CARBON	560K	5% 1/4W	
R525	1-249-437-11	CARBON	47K	5% 1/4W	
R541	1-260-344-51	CARBON	22K	5% 1/2W	
R551	1-249-417-11	CARBON	1K	5% 1/4W F	
R552	1-249-438-11	CARBON	56K	5% 1/4W	
R553	1-249-415-11	CARBON	680	5% 1/4W F	
R554	1-249-438-11	CARBON	56K	5% 1/4W	
R555	1-249-417-11	CARBON	1K	5% 1/4W F	
R556	1-249-431-11	CARBON	15K	5% 1/4W	
R557	1-249-441-11	CARBON	100K	5% 1/4W	
⚠R558	1-217-156-00	METAL	0.22	20% 5W	
R559	1-260-076-11	CARBON	10	5% 1/2W	
⚠R560	1-217-156-00	METAL	0.22	20% 5W	
⚠R561	1-212-881-11	FUSIBLE	100	5% 1/4W	
R581	1-249-435-11	CARBON	33K	5% 1/4W	
R582	1-249-435-11	CARBON	33K	5% 1/4W	
R591	1-260-344-51	CARBON	22K	5% 1/2W	
		**********			
	1-684-555-21	REM BOARD			
		**********			
		< CONNECTOR >			
CN665	1-816-423-11	SOCKET, CONNECTOR 3P			
		< IC >			
RM601	8-759-827-70	IC NJL64H400A-1			
		**********			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

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SENSOR **SPDL MOTOR** **SUB TRANS** **SURROUND** **TRANS**

Ref. No.	Part No.	Description			Remarks
	1-684-558-11	SENSOR BOARD			
		**********			
		< THERMISTOR >			
TH501	1-807-796-11	THERMISTOR			
	1-684-495-11	SPDL MOTOR BOARD			
		**********			
		< CONNECTOR >			
CN01	1-564-722-11	PIN, CONNECTOR (SMALL TYPE) 6P			
		< SWITCH >			
S01	1-771-853-11	SWITCH, DETECTION			
	1-684-560-21	SUB TRANS BOARD			
		**********			
	1-533-217-31	HOLDER, FUSE			
		< CAPACITOR >			
C901	1-113-925-11	CERAMIC	0.01uF	20.00%	250V
C902	1-126-768-11	ELECT	2200uF	20.00%	16V
C903	1-126-933-11	ELECT	100uF	20.00%	16V
		< CONNECTOR >			
* CN2	1-564-321-21	PIN, CONNECTOR(3.96MM PITCH) 2P			(AEP, UK, AUS)
CN2	1-568-106-11	PIN, CONNECTOR(3.96MM PITCH)4P (SP)			
CN901	1-564-321-00	PIN, CONNECTOR(3.96MM PITCH)2P			
* CN903	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P			
		< DIODE >			
⚠D901	8-719-991-33	DIODE 1SS133T-77			
D902	8-719-200-82	DIODE 11ES2-NTA1B			
D903	8-719-200-82	DIODE 11ES2-NTA1B			
D904	8-719-200-82	DIODE 11ES2-NTA1B			
D905	8-719-200-82	DIODE 11ES2-NTA1B			
		< IC >			
IC901	8-759-158-62	IC TA78057S			
		< TRANSISTOR >			
⚠Q901	8-729-119-78	TRANSISTOR	2SC2785TP-HFE		
		< RESISTOR >			
R902	1-249-429-11	CARBON	10K	5%	1/4W
		< RELAY >			
⚠RY901	1-755-276-11	RELAY, POWER			
		< TRANSFORMER >			
⚠T901	1-435-827-11	TRANSFORMER, POWER (AEP, UK)			
⚠T901	1-435-828-11	TRANSFORMER, POWER (AUS,SP)			

Ref. No.	Part No.	Description			Remarks
	1-684-494-11	SURROUND BOARD			
		**********			
		< CONNECTOR >			
CN310	1-564-506-11	PLUG, CONNECTOR 3P			
		< TERMINAL BOARD >			
JK501	1-694-635-12	TERMINAL BOARD (4P)			(SURROUND SPEAKER OUT)
	1-684-559-21	TRANS BOARD			
		**********			
	1-533-217-11	HLDER, FUSE			
		< CAPACITOR >			
C911	1-128-553-11	ELECT	220uF	20.00%	63V
C912	1-126-964-11	ELECT	10uF	20.00%	50V
C913	1-126-968-11	ELECT	100uF	20.00%	50V
C915	1-164-159-21	CERAMIC	0.1uF		50V
		< CONNECTOR >			
CN915	1-564-528-11	PLUG, CONNECTOR 13P			
		< DIODE >			
D911	8-719-200-82	DIODE 11ES2-NTA1B			
D912	8-719-982-20	DIODE MTZJ-T-77-30B			
D913	8-719-109-89	DIODE MTZJ-T-77-5.6B			
		< FUSE >			
⚠F914	1-533-949-31	FUSE, CYLINDRICAL (TIME LUG) (T8AL/250V)			
⚠F919	1-533-473-11	FUSE, GLASS TUBE (DIA. 5) (T6.3AL/250V) (SP)			
⚠F920	1-533-949-31	FUSE, CYLINDRICAL (TIME LUG) (T8AL/250V)			
		< TRANSISTOR >			
Q911	8-729-048-52	TRANSISTOR	2SA1932(TP)		
		< RESISTOR >			
R905	1-249-429-11	CARBON	10K	5%	1/4W
⚠R911	1-217-637-00	FUSIBLE	1	5%	1/4W
R912	1-249-417-11	CARBON	1K	5%	1/4W F
R913	1-249-429-11	CARBON	10K	5%	1/4W
R915	1-247-807-31	CARBON	100	5%	1/4W
R916	1-247-807-31	CARBON	100	5%	1/4W
⚠R919	1-219-122-91	FUSIBLE	0.33	5%	1/4W
⚠R920	1-219-122-91	FUSIBLE	0.33	5%	1/4W
		< SWITCH >			
⚠S901	1-786-055-21	SELECTOR, VOLTAGE (SP)			
		< TRANSFORMER >			
⚠T911	1-437-700-11	TRANSFORMER, POWER (AUS, SP)			
⚠T911	1-437-834-11	TRANSFORMER, POWER (AEP, UK)			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

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Ref. No.	Part No.	Description	Remarks
	1-684-556-11	VIDEO OUT BOARD	
		**********	
		< JACK >	
JK602	1-774-227-31	JACK, PIN 1P(VIDEO OUT)	
**********			
		MISCELLANEOUS	
		**********	
10	1-763-072-11	FAN, DC (AEP,UK)	
10	1-763-738-21	FAN, DC (AUS,SP)	
56	1-773-119-11	WIRE (FLAT TYPE) (19 CORE)	
60	1-796-362-11	DECK, MECH (CWL43RR-51)	
101	1-751-688-11	WIRE (FLAT TYPE) (13 CORE)	
⚠104	1-690-608-11	CORD, POWER (AUS)	
⚠104	1-777-071-82	CORD, POWER (AEP, SP)	
⚠104	1-790-226-12	CORD, POWER (UK)	
159	1-791-983-12	WIRE (FLAT TYPE) (8 CORE)	
166	1-471-035-11	MAGNET ASSY	
⚠186	8-820-020-02	OPTICAL PICK-UP KSM-213DCP/Z-NP	
190	1-823-859-11	WIRE (FLAT TYPE) (16 CORE)	
⚠F911	1-533-473-11	FUSE, GLASS TUBE (DIA. 5) (T6.3AL/250V) (SP)	
⚠F914	1-533-949-31	FUSE, CYLINDRICAL (T8AL/250V) (TIME LUG)	
⚠F920	1-533-949-31	FUSE, CYLINDRICAL (T8AL/250V) (TIME LUG)	
M721	1-763-790-11	MOTOR, DC (TURN)	
⚠T911	1-437-700-11	TRANSFORMER, POWER (AUS, SP)	
⚠T911	1-437-834-11	TRANSFORMER, POWER (AEP, UK)	

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REVISION HISTORY

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Ver.	Date	Description of Revision
1.0	2002.03	New

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